

**Pantheon Summary** (Generated at Sat, 01 Jul 2017 20:33:06 +0000 with pantheon version 55ce618ef3153403f57ca06ffe894ed6887bd36f)

Repeated the test of 15 congestion control schemes 10 times.

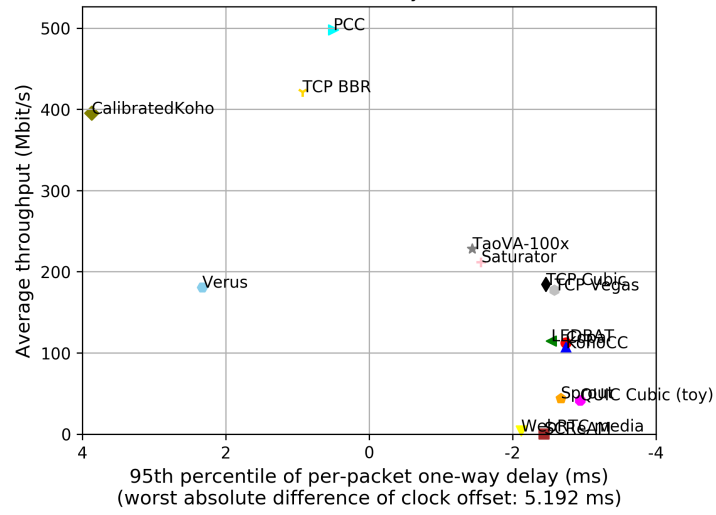
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Data path **from** Stanford Ethernet **to** AWS California 1 Ethernet.

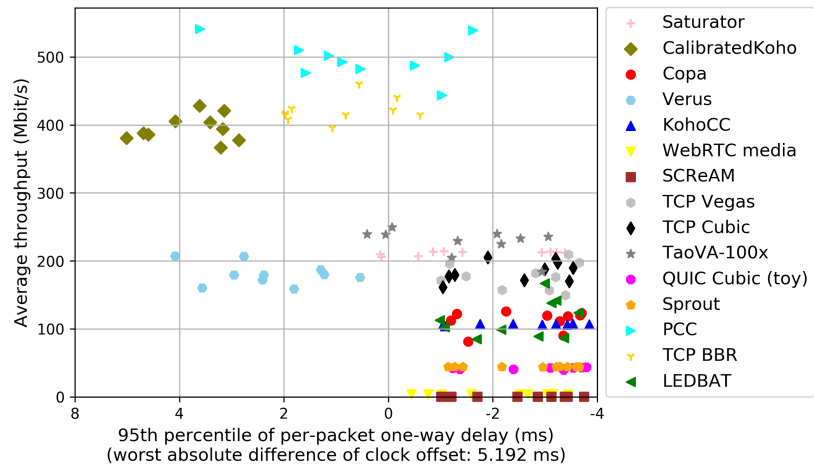
NTP offset measured against time.stanford.edu.

```
git branch: master @ 55ce618ef3153403f57ca06ffe894ed6887bd36f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ c792f8e8e0704b1646a0e024766675d8e9a835f1
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme  
mean of all runs by scheme

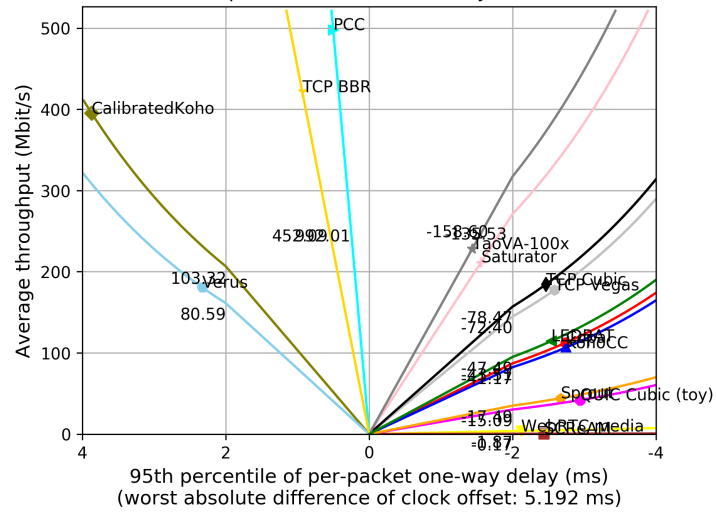


test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme





test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme  
mean power scores of all runs by scheme



Run 1: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 12:51:55 +0000

End at: Sat, 01 Jul 2017 12:52:25 +0000

Local clock offset: 0.013 ms

Remote clock offset: -4.367 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:55:47 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 440.87 Mbit/s

95th percentile per-packet one-way delay: -0.163 ms

Loss rate: 10.73%

-- Flow 1:

Average throughput: 243.08 Mbit/s

95th percentile per-packet one-way delay: -0.491 ms

Loss rate: 11.08%

-- Flow 2:

Average throughput: 140.66 Mbit/s

95th percentile per-packet one-way delay: 0.006 ms

Loss rate: 10.97%

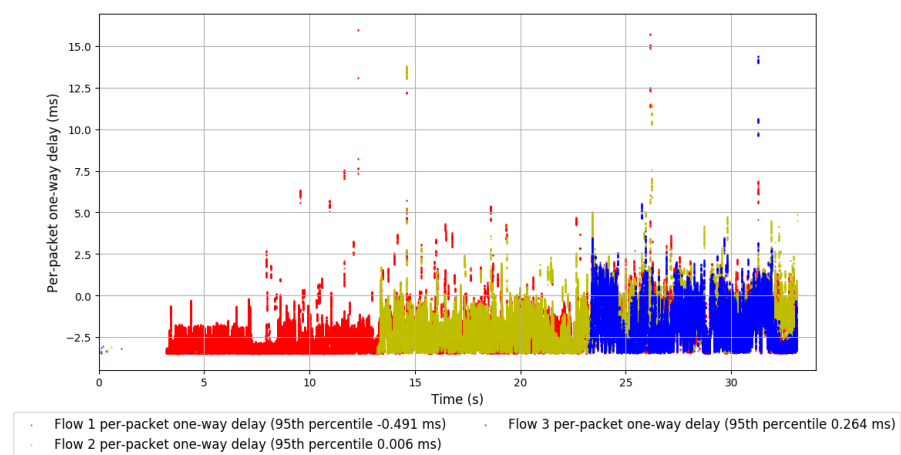
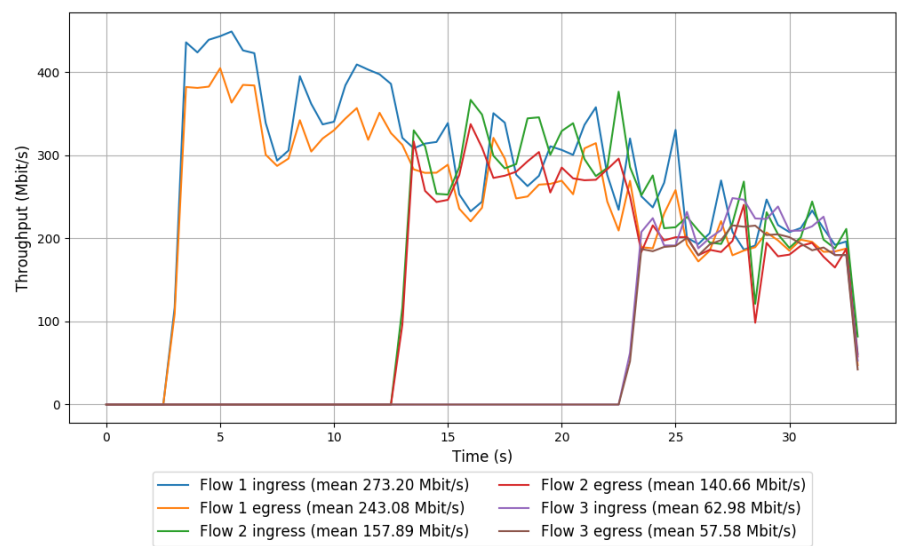
-- Flow 3:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 0.264 ms

Loss rate: 8.62%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:12:44 +0000

End at: Sat, 01 Jul 2017 13:13:14 +0000

Local clock offset: 0.007 ms

Remote clock offset: -4.432 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:55:47 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 422.01 Mbit/s

95th percentile per-packet one-way delay: -0.088 ms

Loss rate: 11.42%

-- Flow 1:

Average throughput: 231.75 Mbit/s

95th percentile per-packet one-way delay: -0.266 ms

Loss rate: 10.10%

-- Flow 2:

Average throughput: 131.51 Mbit/s

95th percentile per-packet one-way delay: 0.021 ms

Loss rate: 13.66%

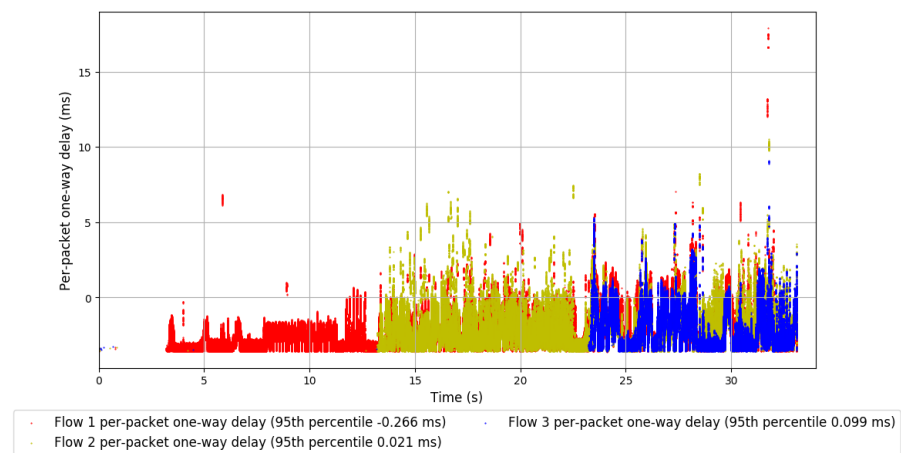
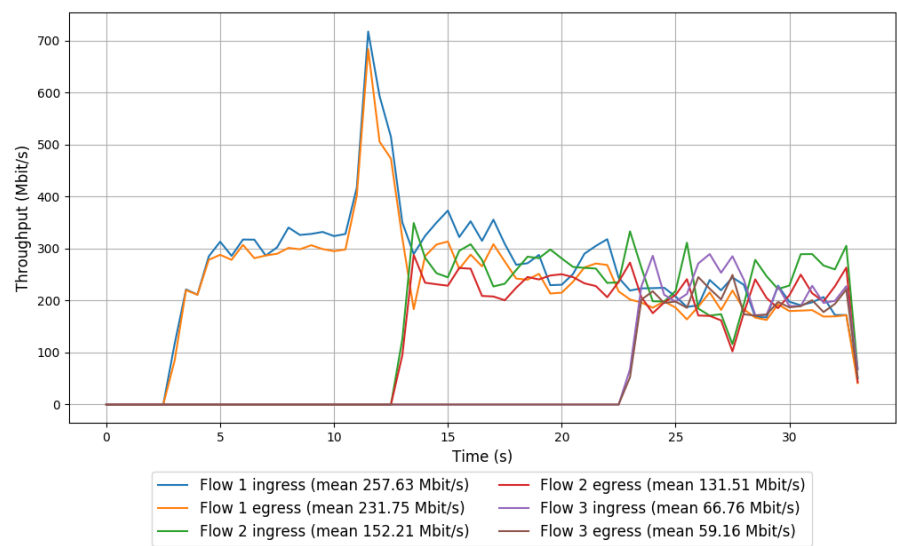
-- Flow 3:

Average throughput: 59.16 Mbit/s

95th percentile per-packet one-way delay: 0.099 ms

Loss rate: 11.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:33:34 +0000

End at: Sat, 01 Jul 2017 13:34:04 +0000

Local clock offset: 0.16 ms

Remote clock offset: -4.819 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:56:39 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 414.74 Mbit/s

95th percentile per-packet one-way delay: -0.606 ms

Loss rate: 11.87%

-- Flow 1:

Average throughput: 230.37 Mbit/s

95th percentile per-packet one-way delay: -0.829 ms

Loss rate: 12.05%

-- Flow 2:

Average throughput: 125.72 Mbit/s

95th percentile per-packet one-way delay: -0.535 ms

Loss rate: 11.02%

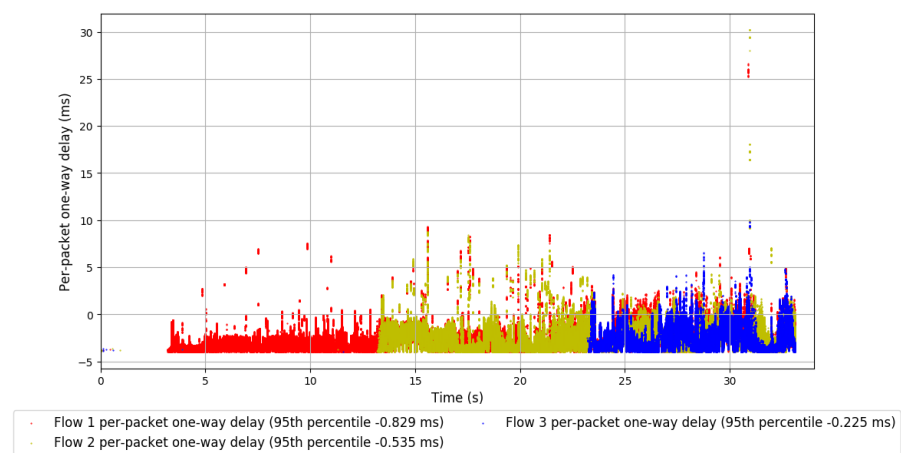
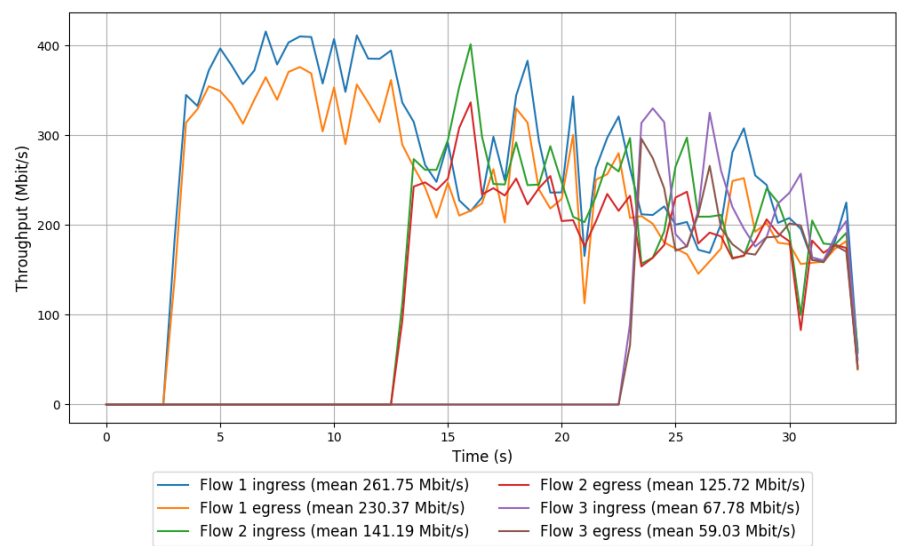
-- Flow 3:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: -0.225 ms

Loss rate: 12.97%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:54:18 +0000

End at: Sat, 01 Jul 2017 13:54:48 +0000

Local clock offset: 0.172 ms

Remote clock offset: -4.494 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:56:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 460.33 Mbit/s

95th percentile per-packet one-way delay: 0.564 ms

Loss rate: 9.91%

-- Flow 1:

Average throughput: 264.27 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 8.96%

-- Flow 2:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: -0.264 ms

Loss rate: 11.57%

-- Flow 3:

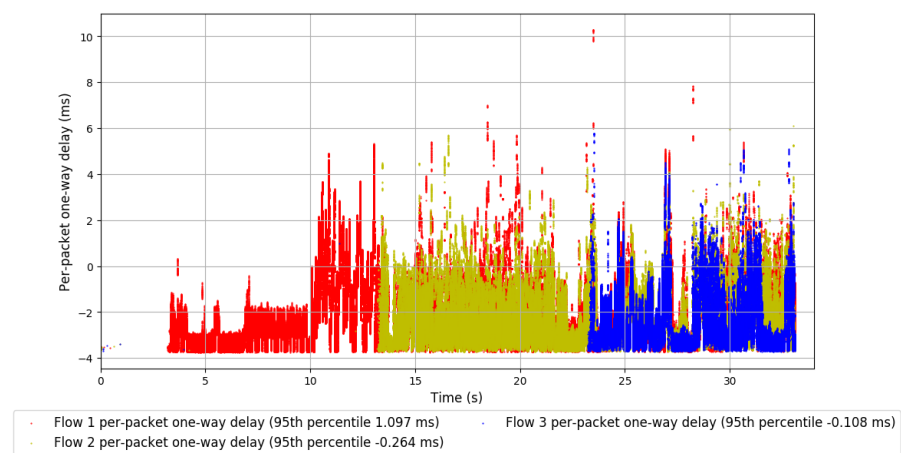
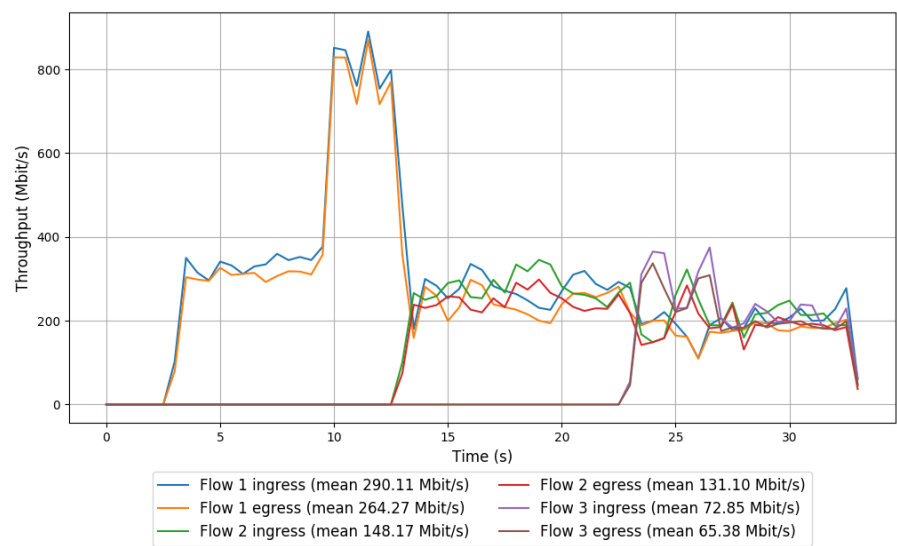
Average throughput: 65.38 Mbit/s

95th percentile per-packet one-way delay: -0.108 ms

Loss rate: 10.32%



Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 14:15:05 +0000

End at: Sat, 01 Jul 2017 14:15:35 +0000

Local clock offset: 0.206 ms

Remote clock offset: -4.056 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:57:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 414.86 Mbit/s

95th percentile per-packet one-way delay: 0.818 ms

Loss rate: 13.45%

-- Flow 1:

Average throughput: 222.28 Mbit/s

95th percentile per-packet one-way delay: 0.729 ms

Loss rate: 12.75%

-- Flow 2:

Average throughput: 133.11 Mbit/s

95th percentile per-packet one-way delay: 0.918 ms

Loss rate: 11.93%

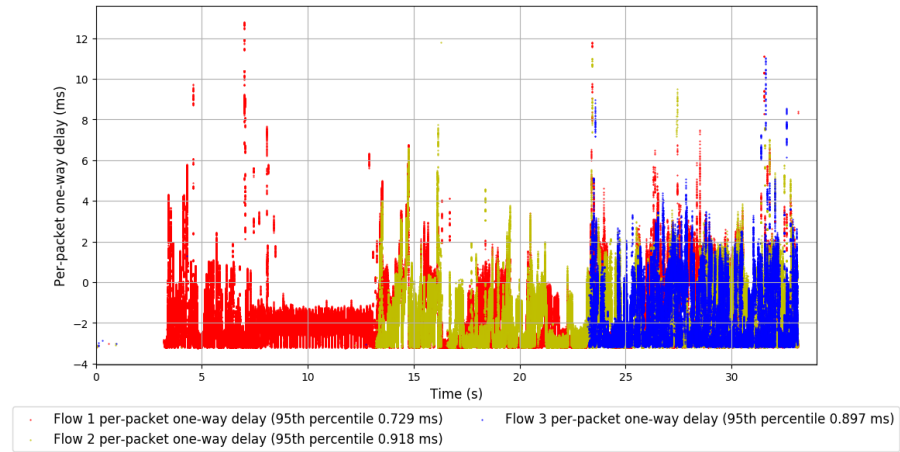
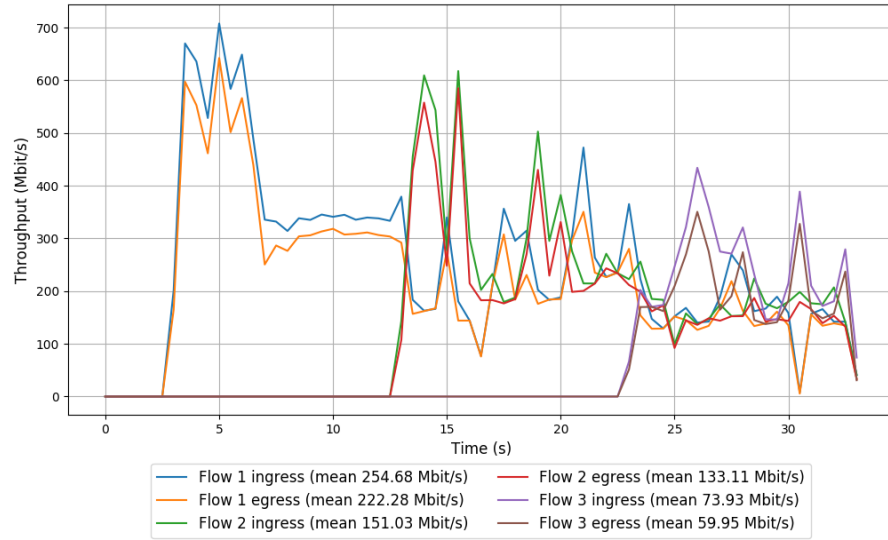
-- Flow 3:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 0.897 ms

Loss rate: 18.98%

# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 14:35:46 +0000

End at: Sat, 01 Jul 2017 14:36:16 +0000

Local clock offset: 0.163 ms

Remote clock offset: -3.898 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:57:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 395.72 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 13.42%

-- Flow 1:

Average throughput: 225.42 Mbit/s

95th percentile per-packet one-way delay: 0.411 ms

Loss rate: 11.05%

-- Flow 2:

Average throughput: 113.65 Mbit/s

95th percentile per-packet one-way delay: 1.647 ms

Loss rate: 14.22%

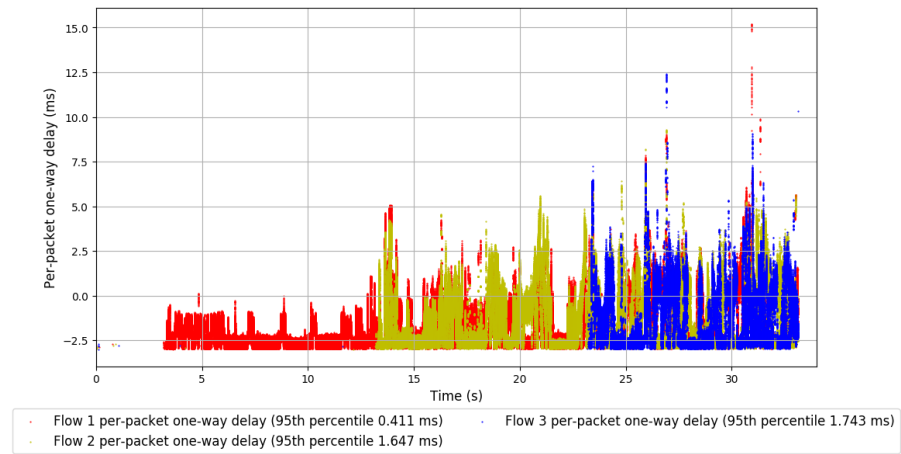
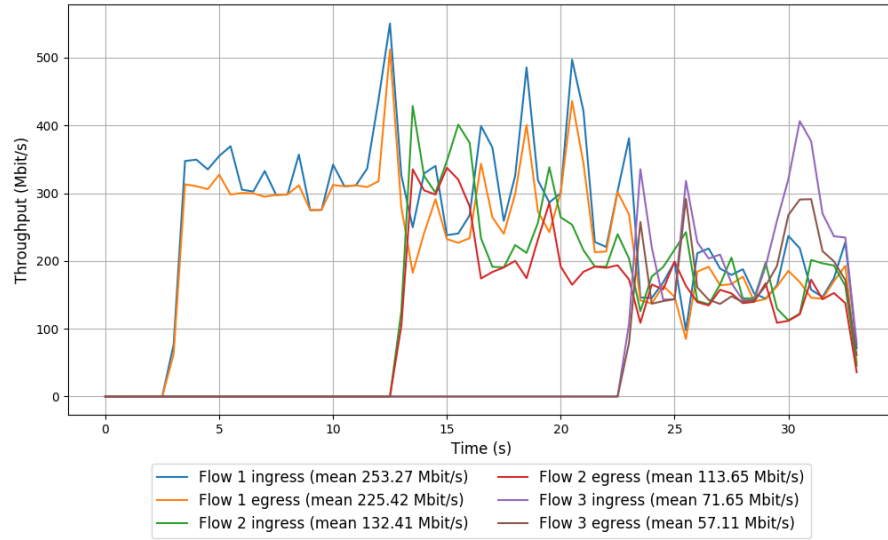
-- Flow 3:

Average throughput: 57.11 Mbit/s

95th percentile per-packet one-way delay: 1.743 ms

Loss rate: 20.33%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 14:56:27 +0000

End at: Sat, 01 Jul 2017 14:56:57 +0000

Local clock offset: 0.119 ms

Remote clock offset: -3.243 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:58:42 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 415.09 Mbit/s

95th percentile per-packet one-way delay: 1.975 ms

Loss rate: 12.94%

-- Flow 1:

Average throughput: 244.45 Mbit/s

95th percentile per-packet one-way delay: 1.777 ms

Loss rate: 11.36%

-- Flow 2:

Average throughput: 118.96 Mbit/s

95th percentile per-packet one-way delay: 2.550 ms

Loss rate: 13.74%

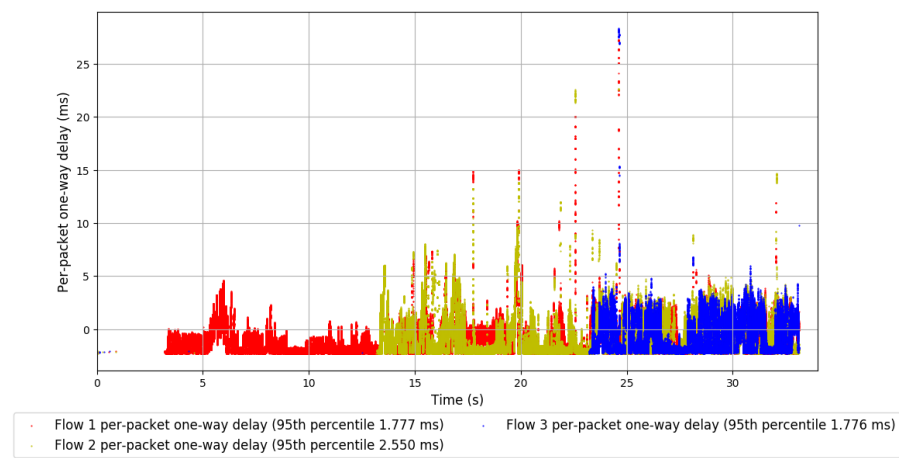
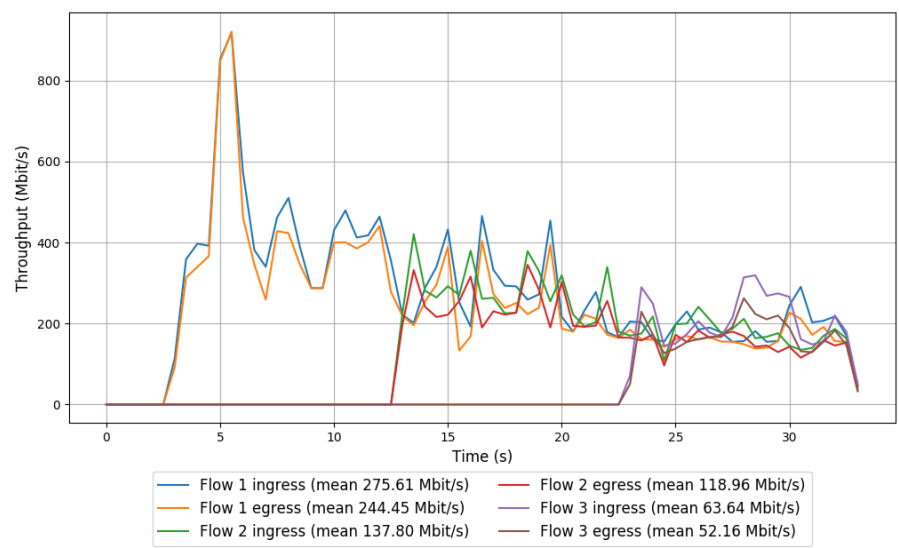
-- Flow 3:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 1.776 ms

Loss rate: 18.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 15:17:04 +0000

End at: Sat, 01 Jul 2017 15:17:34 +0000

Local clock offset: 0.175 ms

Remote clock offset: -2.203 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:58:54 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 424.01 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 10.05%

-- Flow 1:

Average throughput: 220.43 Mbit/s

95th percentile per-packet one-way delay: 1.678 ms

Loss rate: 9.38%

-- Flow 2:

Average throughput: 133.71 Mbit/s

95th percentile per-packet one-way delay: 2.044 ms

Loss rate: 10.88%

-- Flow 3:

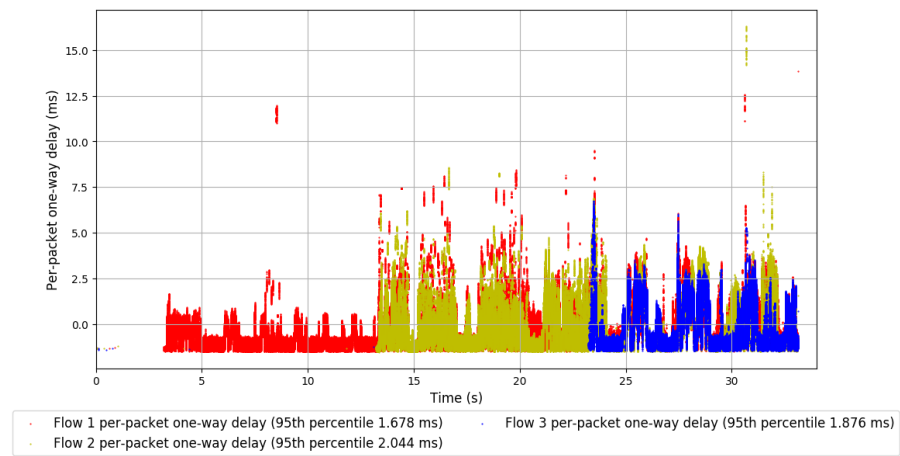
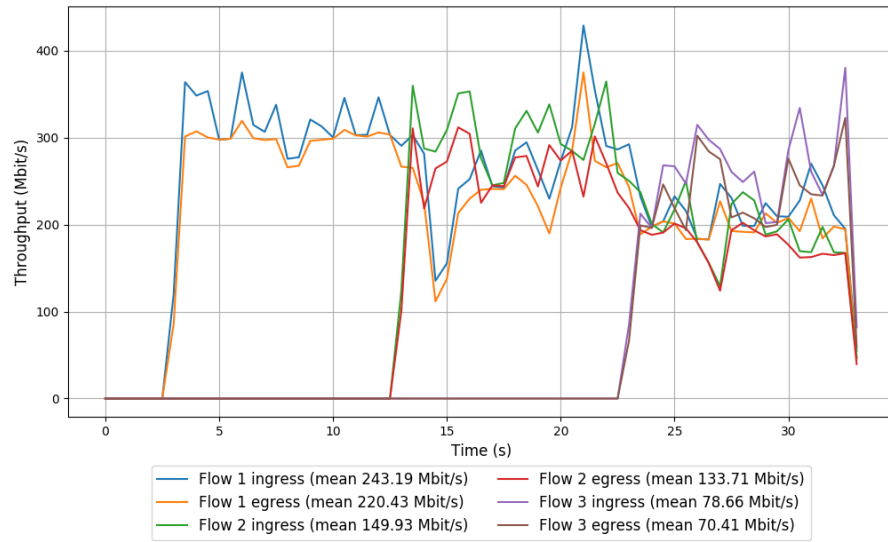
Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 1.876 ms

Loss rate: 10.54%



## Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 15:37:48 +0000

End at: Sat, 01 Jul 2017 15:38:18 +0000

Local clock offset: 0.376 ms

Remote clock offset: -2.199 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:59:44 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 408.02 Mbit/s

95th percentile per-packet one-way delay: 1.919 ms

Loss rate: 11.49%

-- Flow 1:

Average throughput: 219.06 Mbit/s

95th percentile per-packet one-way delay: 1.646 ms

Loss rate: 10.85%

-- Flow 2:

Average throughput: 133.56 Mbit/s

95th percentile per-packet one-way delay: 2.042 ms

Loss rate: 12.62%

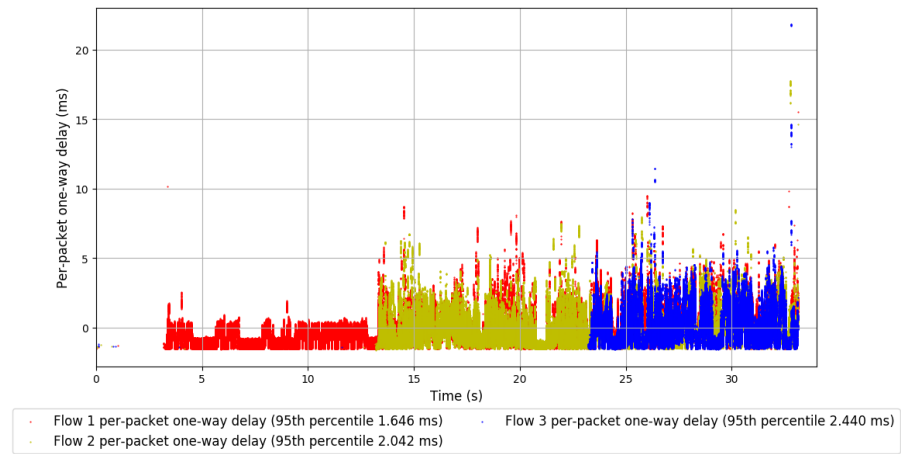
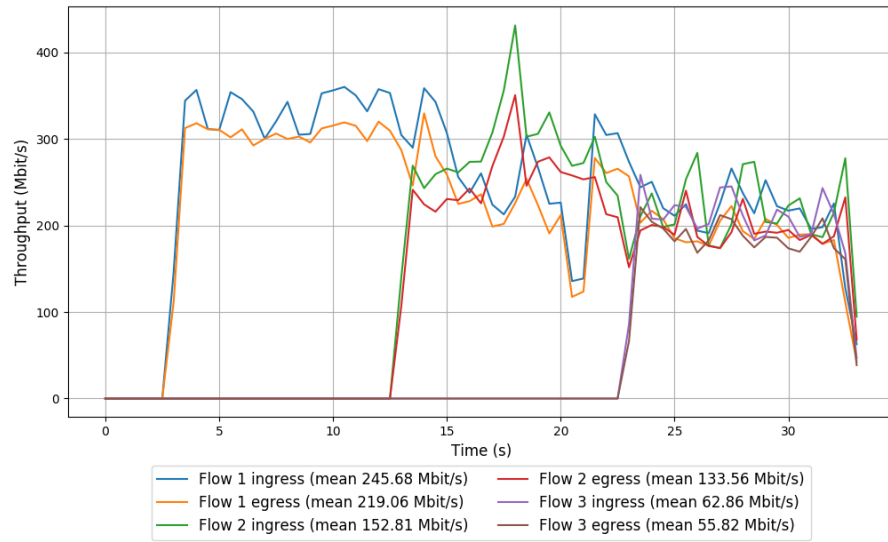
-- Flow 3:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 2.440 ms

Loss rate: 11.25%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 15:58:37 +0000

End at: Sat, 01 Jul 2017 15:59:07 +0000

Local clock offset: 0.452 ms

Remote clock offset: -2.129 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 19:59:55 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 417.36 Mbit/s

95th percentile per-packet one-way delay: 1.973 ms

Loss rate: 10.91%

-- Flow 1:

Average throughput: 222.72 Mbit/s

95th percentile per-packet one-way delay: 1.450 ms

Loss rate: 9.89%

-- Flow 2:

Average throughput: 132.24 Mbit/s

95th percentile per-packet one-way delay: 2.423 ms

Loss rate: 11.92%

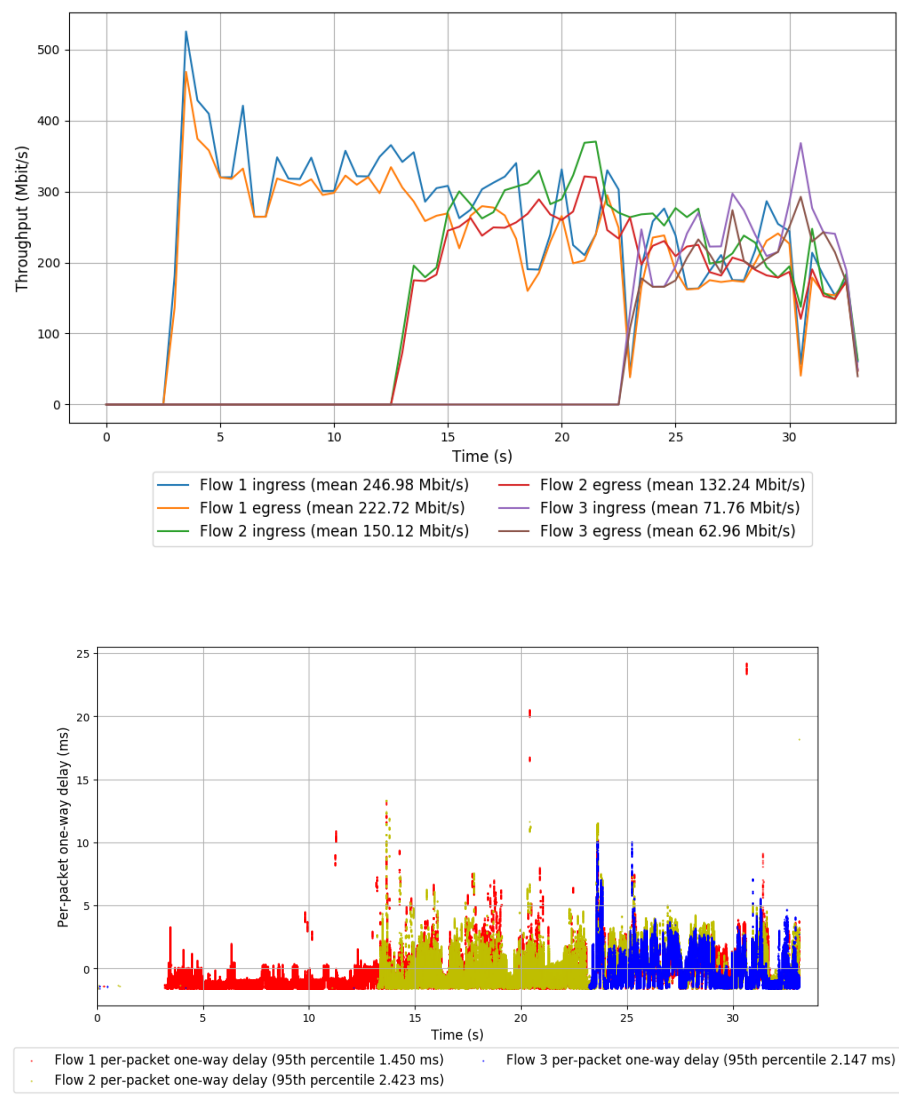
-- Flow 3:

Average throughput: 62.96 Mbit/s

95th percentile per-packet one-way delay: 2.147 ms

Loss rate: 12.31%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 12:48:34 +0000

End at: Sat, 01 Jul 2017 12:49:04 +0000

Local clock offset: 0.097 ms

Remote clock offset: -4.558 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:00:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 394.00 Mbit/s

95th percentile per-packet one-way delay: 2.998 ms

Loss rate: 49.27%

-- Flow 1:

Average throughput: 220.40 Mbit/s

95th percentile per-packet one-way delay: 2.689 ms

Loss rate: 48.30%

-- Flow 2:

Average throughput: 122.74 Mbit/s

95th percentile per-packet one-way delay: 3.283 ms

Loss rate: 53.90%

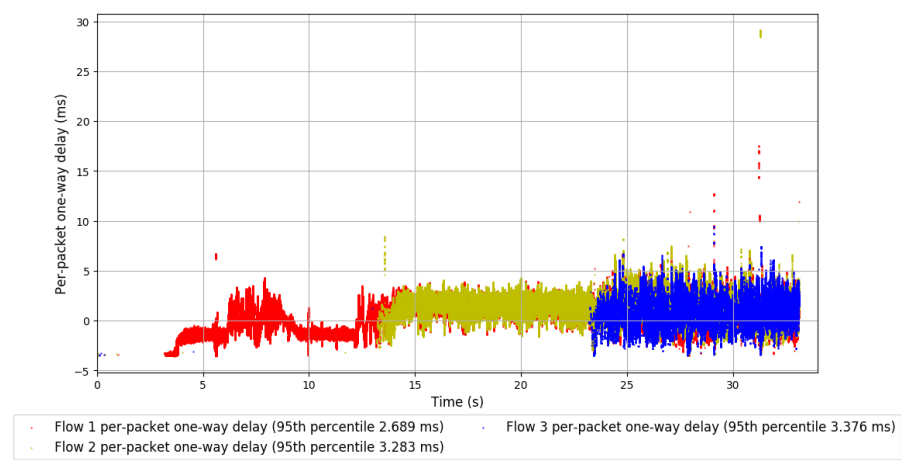
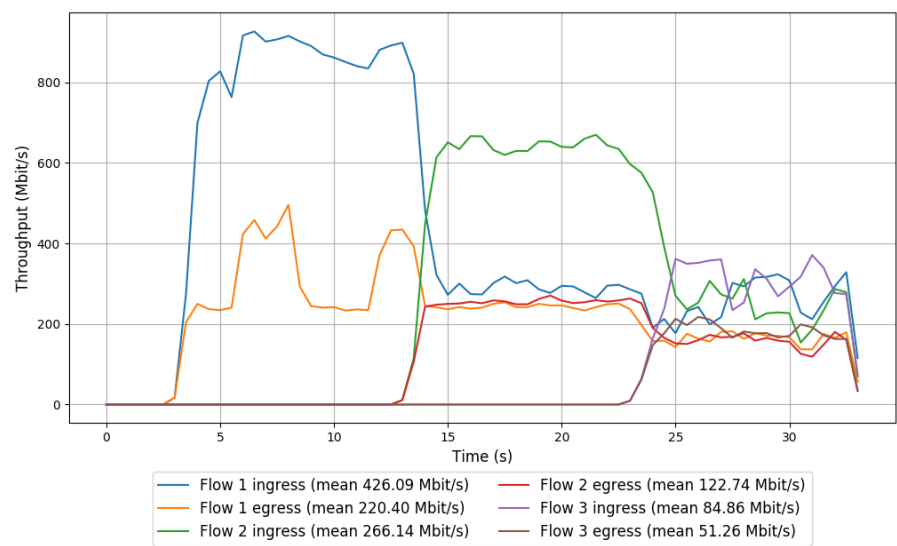
-- Flow 3:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 3.376 ms

Loss rate: 39.64%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 13:09:24 +0000

End at: Sat, 01 Jul 2017 13:09:54 +0000

Local clock offset: 0.092 ms

Remote clock offset: -4.353 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:01:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 421.15 Mbit/s

95th percentile per-packet one-way delay: 2.969 ms

Loss rate: 46.73%

-- Flow 1:

Average throughput: 247.61 Mbit/s

95th percentile per-packet one-way delay: 2.629 ms

Loss rate: 47.98%

-- Flow 2:

Average throughput: 124.16 Mbit/s

95th percentile per-packet one-way delay: 2.908 ms

Loss rate: 43.21%

-- Flow 3:

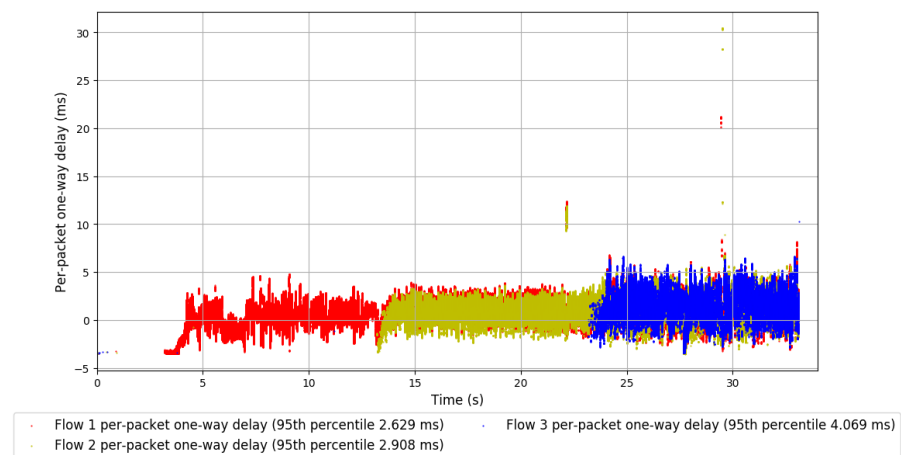
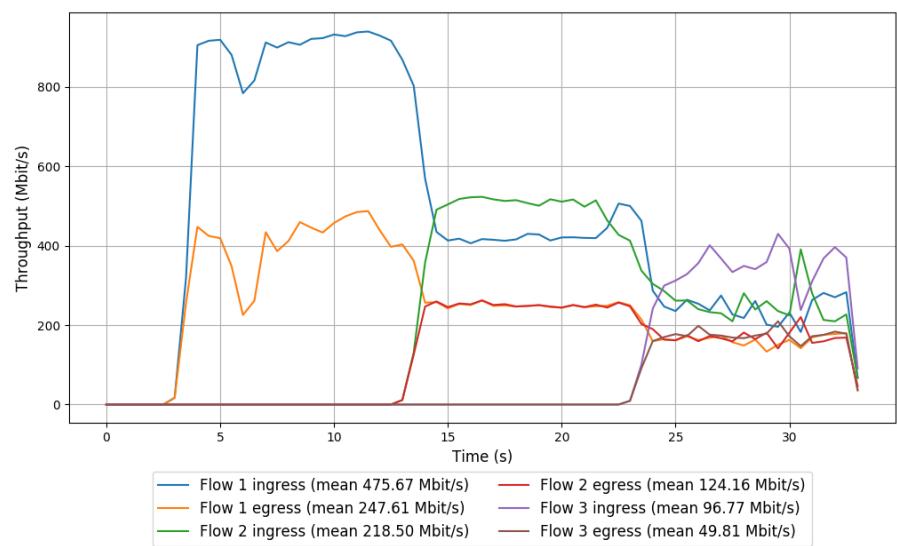
Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 4.069 ms

Loss rate: 48.55%



Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 13:30:13 +0000

End at: Sat, 01 Jul 2017 13:30:43 +0000

Local clock offset: 0.146 ms

Remote clock offset: -4.844 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:01:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 404.24 Mbit/s

95th percentile per-packet one-way delay: 3.260 ms

Loss rate: 48.65%

-- Flow 1:

Average throughput: 231.15 Mbit/s

95th percentile per-packet one-way delay: 2.786 ms

Loss rate: 46.11%

-- Flow 2:

Average throughput: 125.13 Mbit/s

95th percentile per-packet one-way delay: 3.564 ms

Loss rate: 53.51%

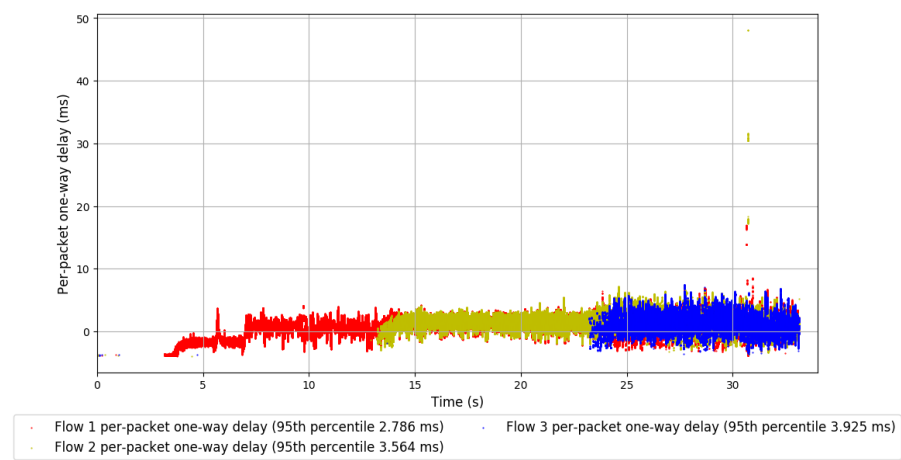
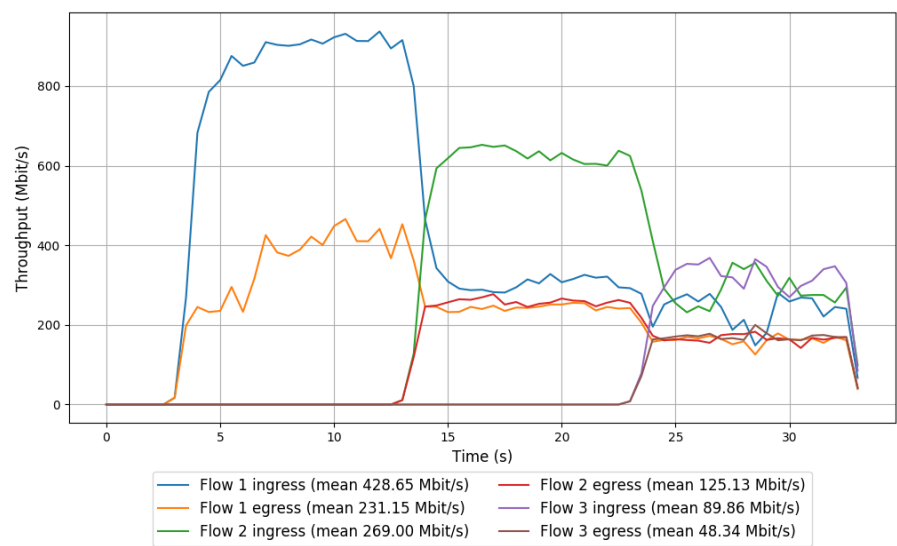
-- Flow 3:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 3.925 ms

Loss rate: 46.23%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 13:51:03 +0000

End at: Sat, 01 Jul 2017 13:51:33 +0000

Local clock offset: 0.072 ms

Remote clock offset: -4.689 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:02:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 377.55 Mbit/s

95th percentile per-packet one-way delay: 2.693 ms

Loss rate: 51.13%

-- Flow 1:

Average throughput: 206.41 Mbit/s

95th percentile per-packet one-way delay: 2.560 ms

Loss rate: 55.45%

-- Flow 2:

Average throughput: 122.76 Mbit/s

95th percentile per-packet one-way delay: 2.737 ms

Loss rate: 46.03%

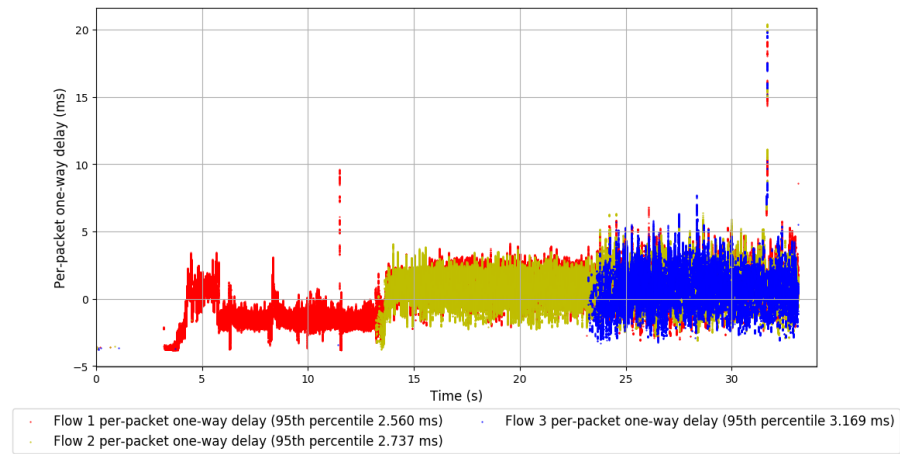
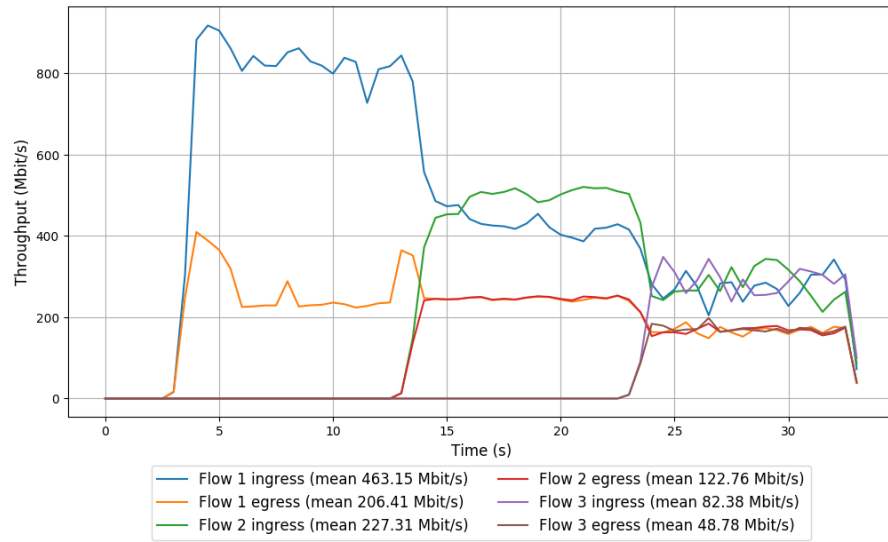
-- Flow 3:

Average throughput: 48.78 Mbit/s

95th percentile per-packet one-way delay: 3.169 ms

Loss rate: 40.81%

# Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 14:11:47 +0000

End at: Sat, 01 Jul 2017 14:12:17 +0000

Local clock offset: 0.213 ms

Remote clock offset: -4.158 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:02:55 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 366.60 Mbit/s

95th percentile per-packet one-way delay: 3.043 ms

Loss rate: 51.35%

-- Flow 1:

Average throughput: 189.77 Mbit/s

95th percentile per-packet one-way delay: 2.666 ms

Loss rate: 56.64%

-- Flow 2:

Average throughput: 114.55 Mbit/s

95th percentile per-packet one-way delay: 3.114 ms

Loss rate: 38.30%

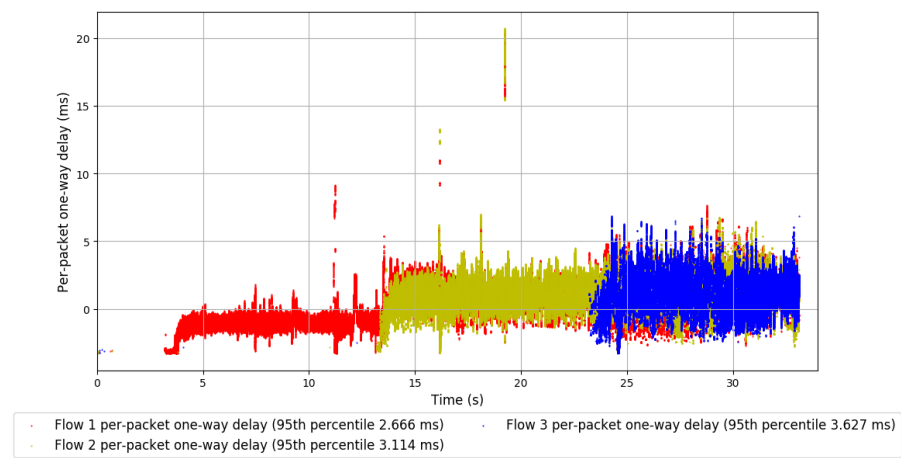
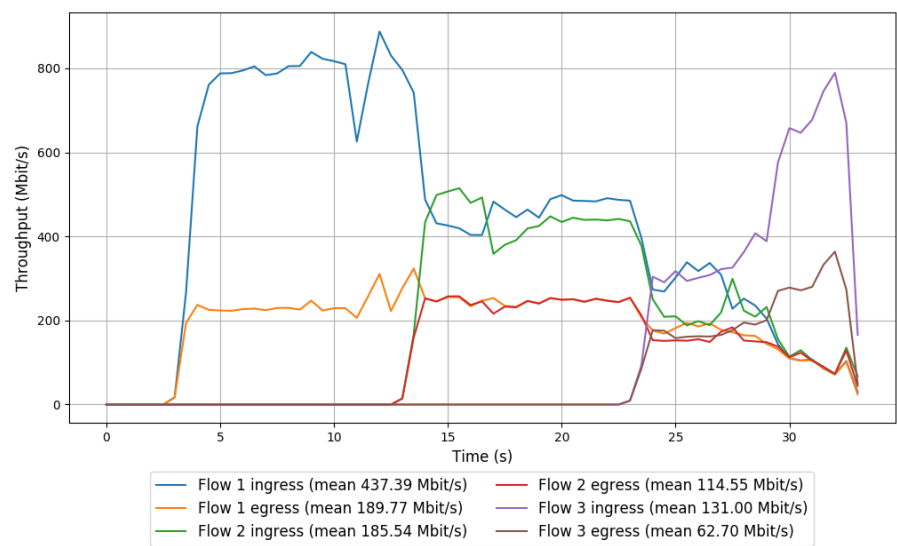
-- Flow 3:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 3.627 ms

Loss rate: 52.16%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 14:32:24 +0000

End at: Sat, 01 Jul 2017 14:32:54 +0000

Local clock offset: 0.078 ms

Remote clock offset: -3.987 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:03:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 428.19 Mbit/s

95th percentile per-packet one-way delay: 3.501 ms

Loss rate: 45.00%

-- Flow 1:

Average throughput: 258.22 Mbit/s

95th percentile per-packet one-way delay: 2.787 ms

Loss rate: 44.07%

-- Flow 2:

Average throughput: 123.53 Mbit/s

95th percentile per-packet one-way delay: 3.957 ms

Loss rate: 47.79%

-- Flow 3:

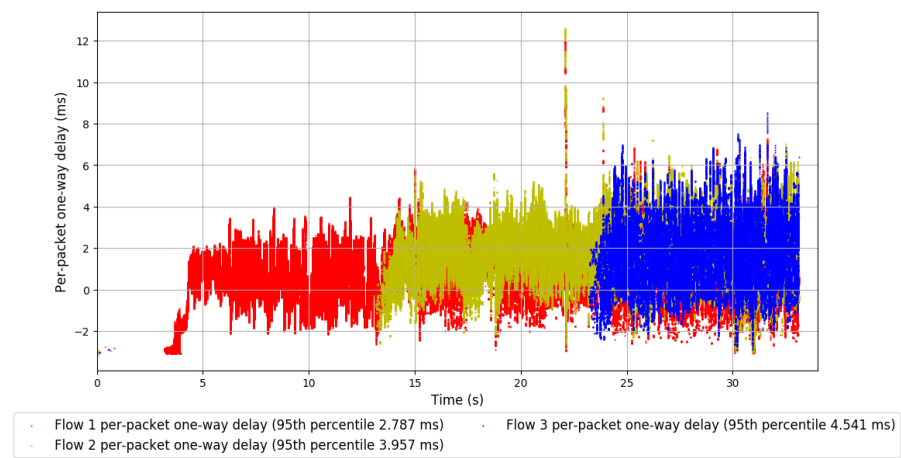
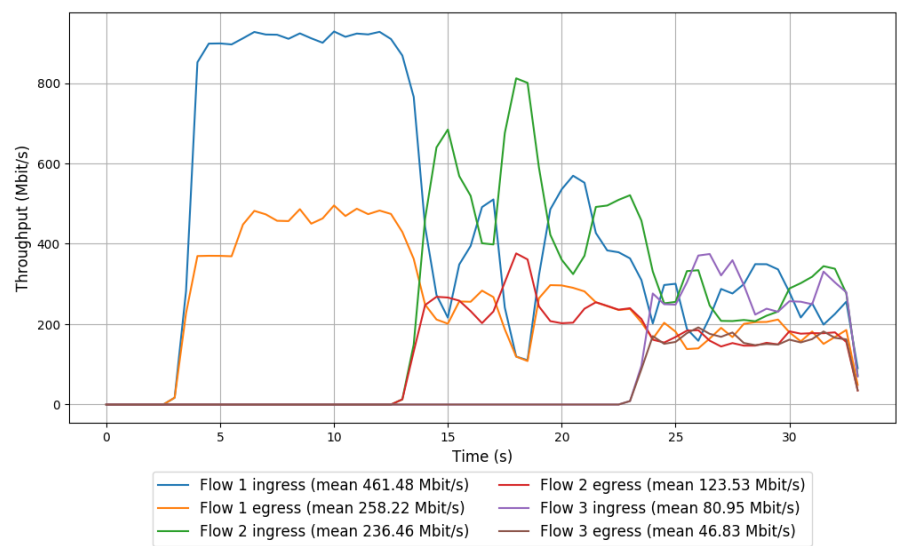
Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 4.541 ms

Loss rate: 42.17%



Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 14:53:09 +0000

End at: Sat, 01 Jul 2017 14:53:39 +0000

Local clock offset: 0.019 ms

Remote clock offset: -3.382 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:04:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 405.43 Mbit/s

95th percentile per-packet one-way delay: 4.105 ms

Loss rate: 48.42%

-- Flow 1:

Average throughput: 233.95 Mbit/s

95th percentile per-packet one-way delay: 3.607 ms

Loss rate: 52.27%

-- Flow 2:

Average throughput: 118.56 Mbit/s

95th percentile per-packet one-way delay: 4.150 ms

Loss rate: 37.28%

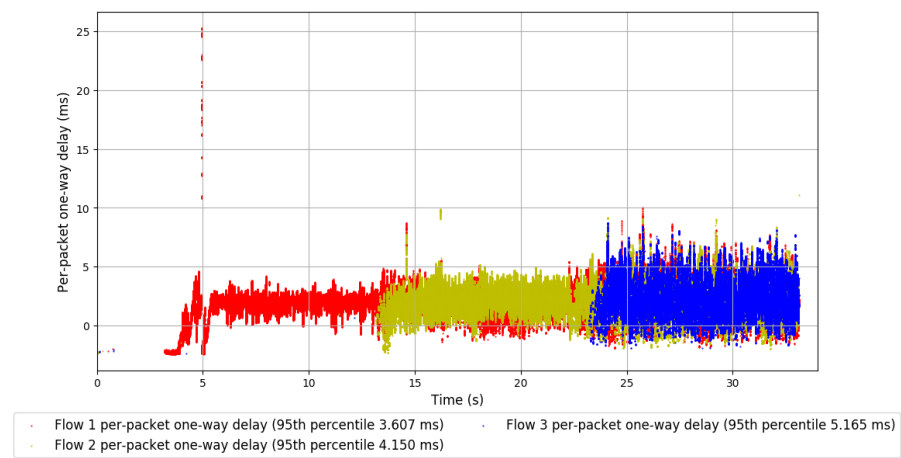
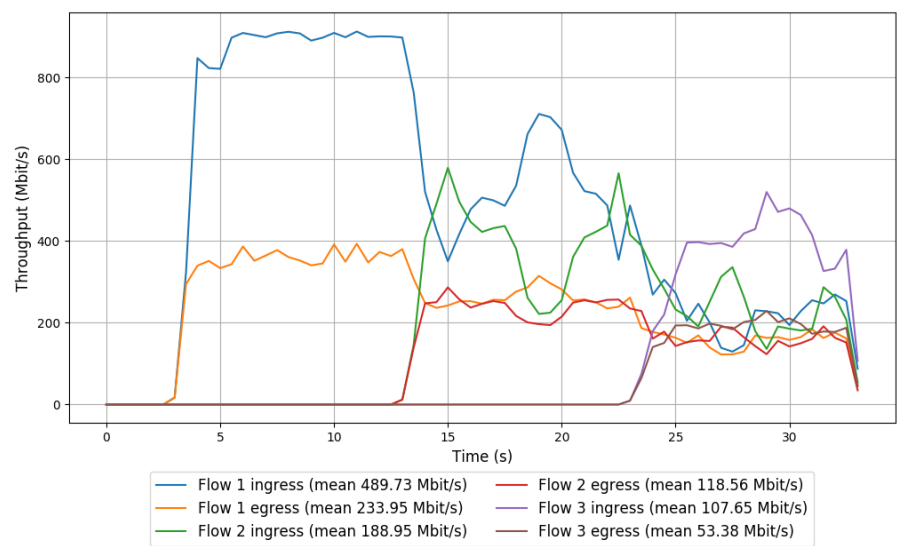
-- Flow 3:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 5.165 ms

Loss rate: 50.45%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 15:13:44 +0000

End at: Sat, 01 Jul 2017 15:14:14 +0000

Local clock offset: 0.264 ms

Remote clock offset: -2.354 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:04:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 387.75 Mbit/s

95th percentile per-packet one-way delay: 5.079 ms

Loss rate: 49.18%

-- Flow 1:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 4.639 ms

Loss rate: 52.68%

-- Flow 2:

Average throughput: 120.00 Mbit/s

95th percentile per-packet one-way delay: 5.012 ms

Loss rate: 42.05%

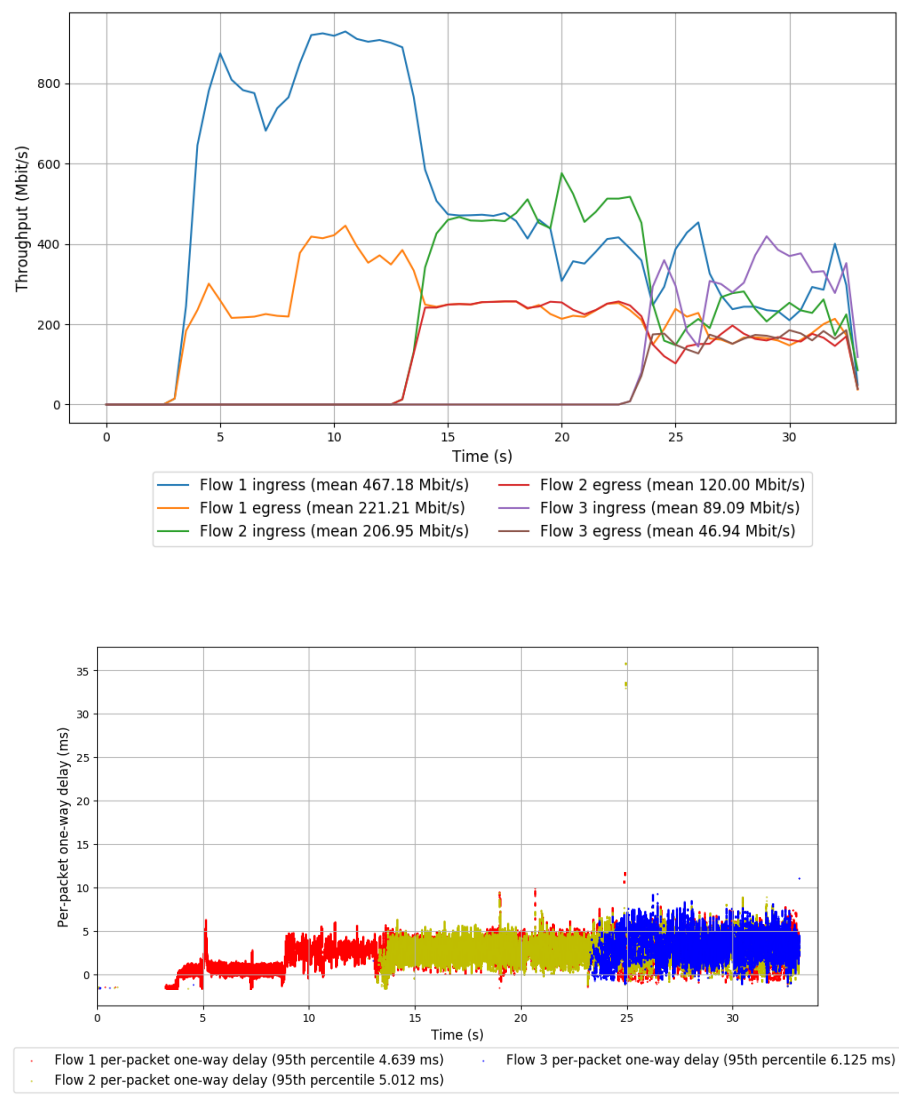
-- Flow 3:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 6.125 ms

Loss rate: 47.33%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 15:34:27 +0000

End at: Sat, 01 Jul 2017 15:34:57 +0000

Local clock offset: 0.252 ms

Remote clock offset: -2.198 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:05:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 380.78 Mbit/s

95th percentile per-packet one-way delay: 5.682 ms

Loss rate: 50.68%

-- Flow 1:

Average throughput: 166.85 Mbit/s

95th percentile per-packet one-way delay: 4.699 ms

Loss rate: 53.94%

-- Flow 2:

Average throughput: 171.05 Mbit/s

95th percentile per-packet one-way delay: 5.989 ms

Loss rate: 50.91%

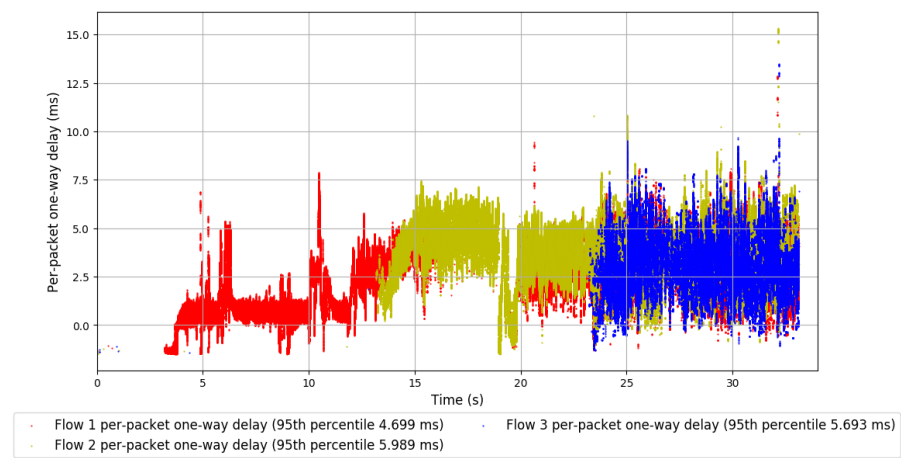
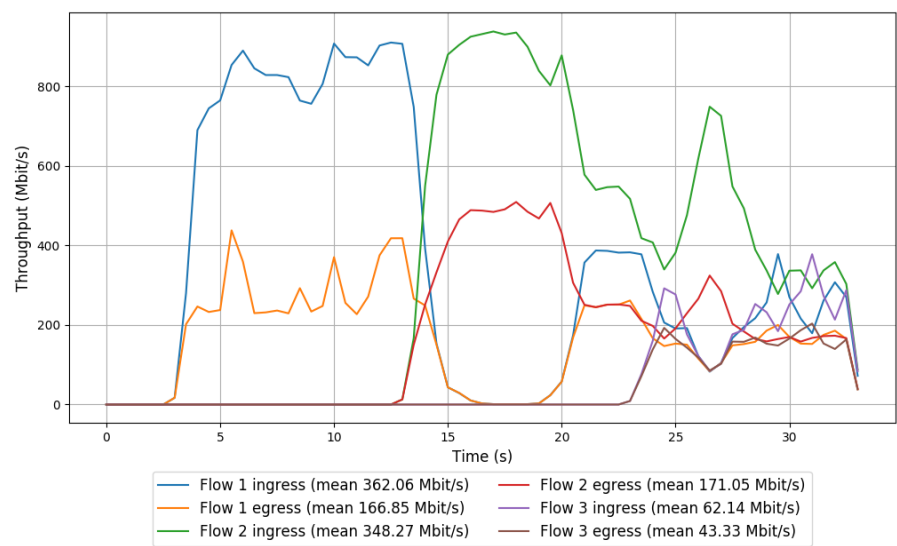
-- Flow 3:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 5.693 ms

Loss rate: 30.31%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 15:55:16 +0000

End at: Sat, 01 Jul 2017 15:55:46 +0000

Local clock offset: 0.457 ms

Remote clock offset: -2.211 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:05:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 385.92 Mbit/s

95th percentile per-packet one-way delay: 4.915 ms

Loss rate: 50.16%

-- Flow 1:

Average throughput: 214.92 Mbit/s

95th percentile per-packet one-way delay: 4.610 ms

Loss rate: 53.41%

-- Flow 2:

Average throughput: 122.00 Mbit/s

95th percentile per-packet one-way delay: 4.879 ms

Loss rate: 42.35%

-- Flow 3:

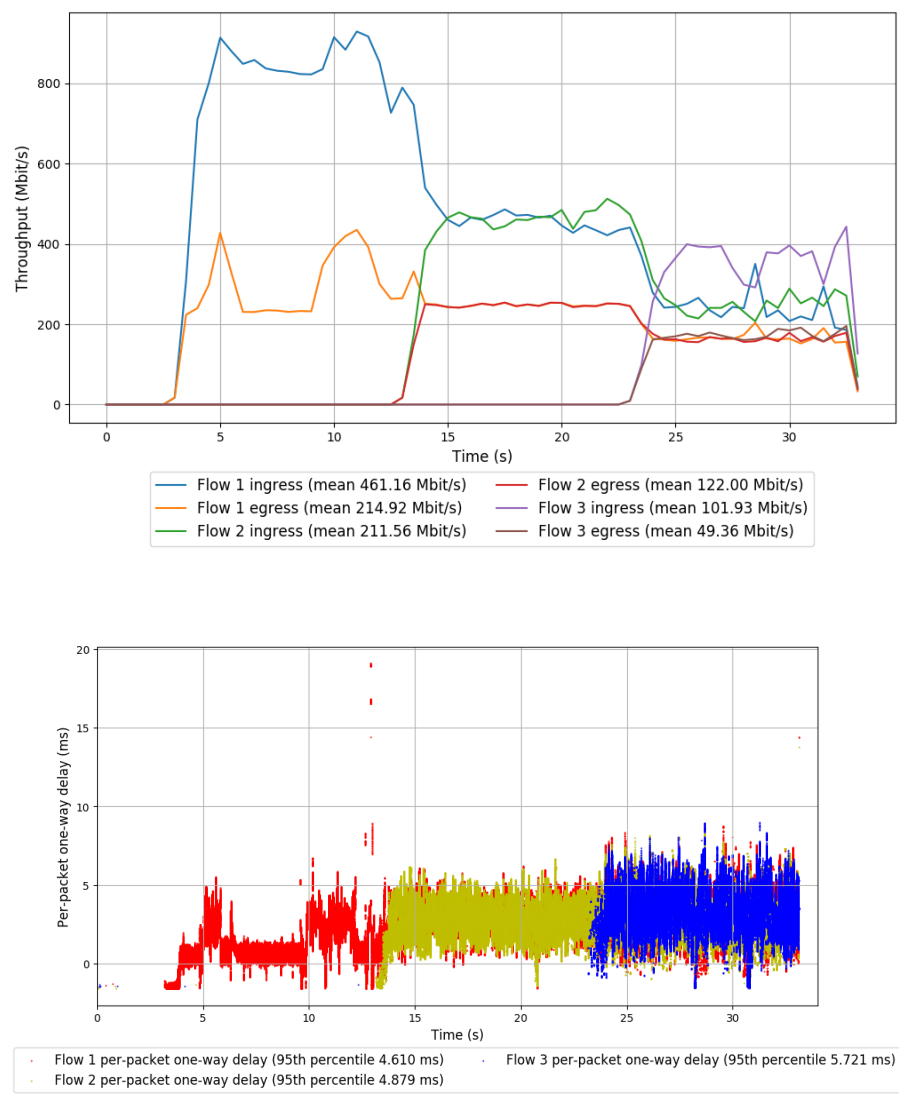
Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 5.721 ms

Loss rate: 51.61%



Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Sat, 01 Jul 2017 12:44:38 +0000

End at: Sat, 01 Jul 2017 12:45:08 +0000

Local clock offset: -0.001 ms

Remote clock offset: -4.546 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:05:47 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.52 Mbit/s

95th percentile per-packet one-way delay: -3.288 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: -3.315 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: -3.262 ms

Loss rate: 0.15%

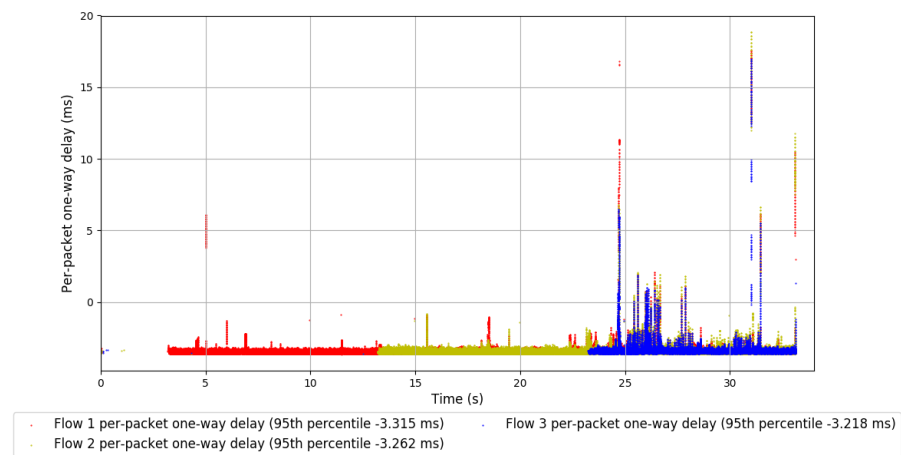
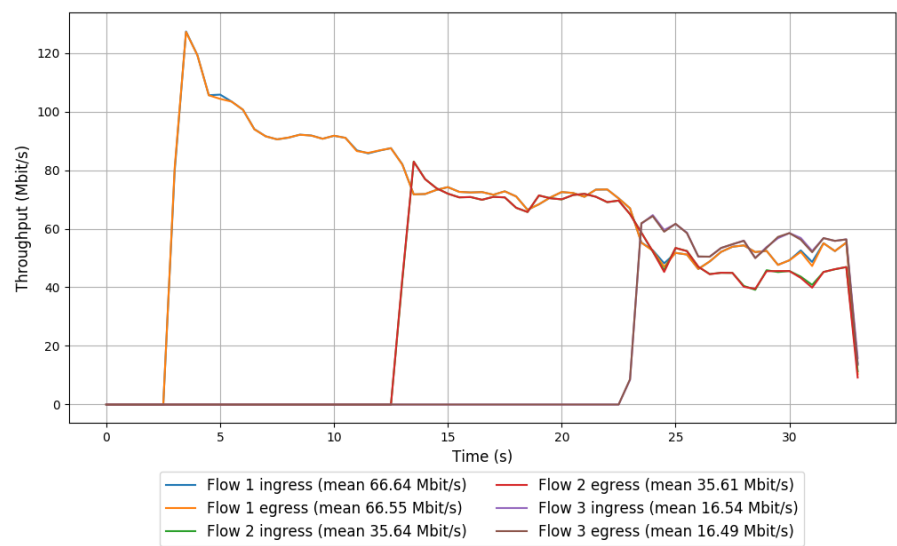
-- Flow 3:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: -3.218 ms

Loss rate: 0.34%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Sat, 01 Jul 2017 13:05:31 +0000

End at: Sat, 01 Jul 2017 13:06:01 +0000

Local clock offset: 0.005 ms

Remote clock offset: -4.378 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:05:58 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: -3.191 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 69.61 Mbit/s

95th percentile per-packet one-way delay: -3.210 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: -3.132 ms

Loss rate: 0.00%

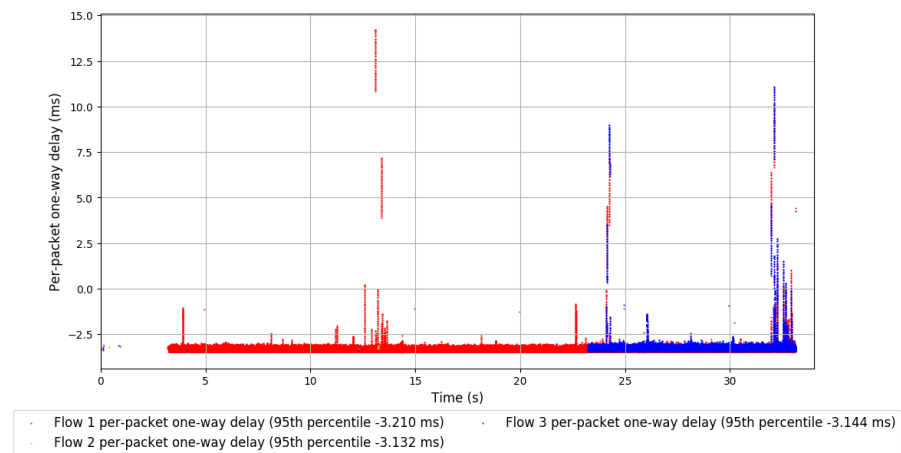
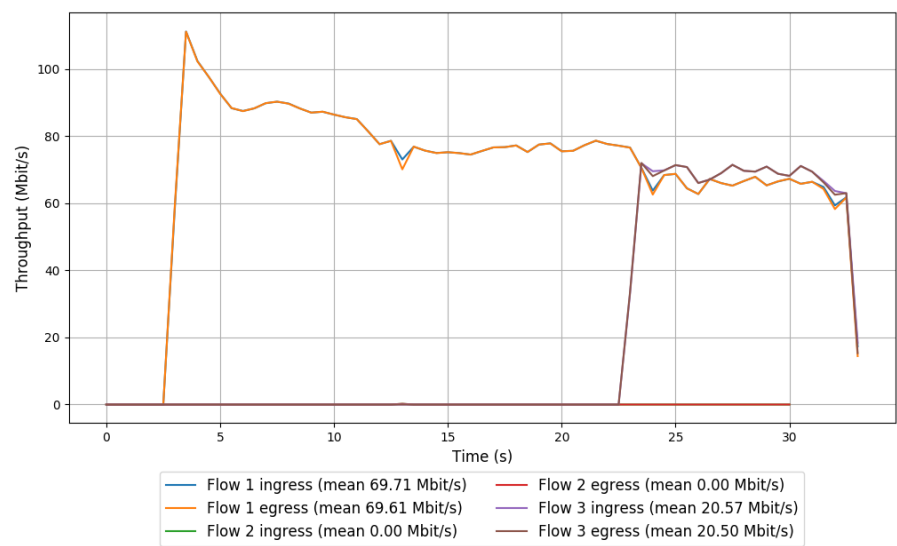
-- Flow 3:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: -3.144 ms

Loss rate: 0.41%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Sat, 01 Jul 2017 13:26:17 +0000

End at: Sat, 01 Jul 2017 13:26:47 +0000

Local clock offset: 0.05 ms

Remote clock offset: -4.667 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:06:18 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 120.11 Mbit/s

95th percentile per-packet one-way delay: -3.569 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: -3.582 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: -3.547 ms

Loss rate: 0.11%

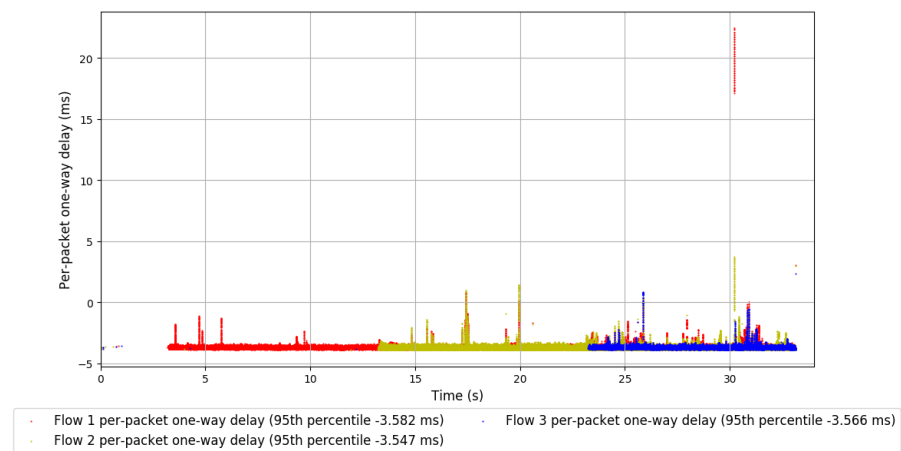
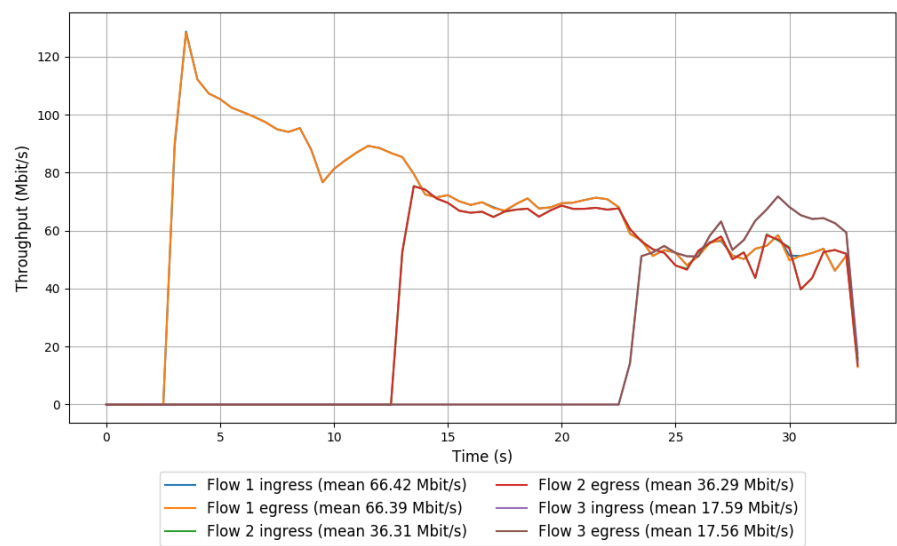
-- Flow 3:

Average throughput: 17.56 Mbit/s

95th percentile per-packet one-way delay: -3.566 ms

Loss rate: 0.21%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Sat, 01 Jul 2017 13:47:08 +0000

End at: Sat, 01 Jul 2017 13:47:39 +0000

Local clock offset: 0.08 ms

Remote clock offset: -4.824 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:06:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.03 Mbit/s

95th percentile per-packet one-way delay: -3.604 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 68.53 Mbit/s

95th percentile per-packet one-way delay: -3.640 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: -3.581 ms

Loss rate: 0.08%

-- Flow 3:

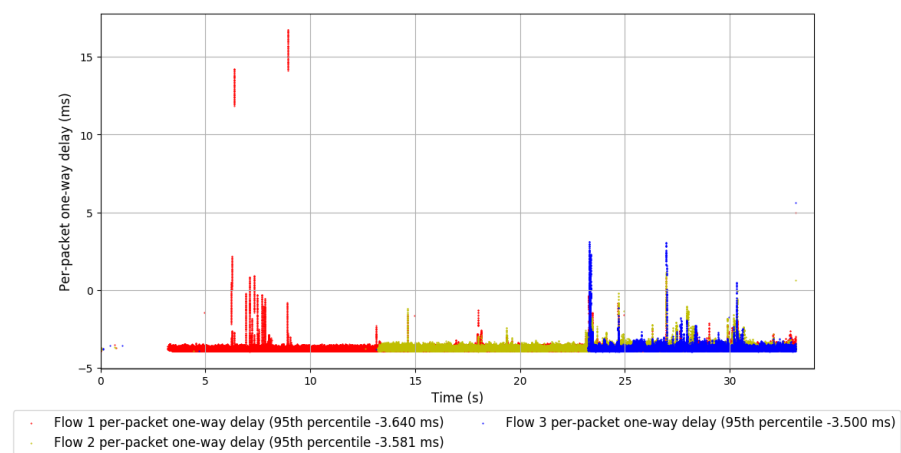
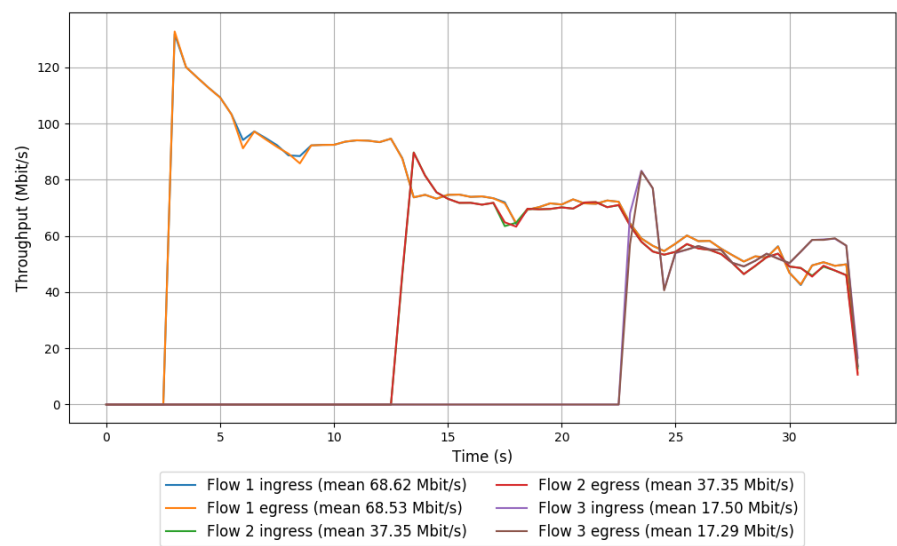
Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: -3.500 ms

Loss rate: 1.23%



Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:07:53 +0000

End at: Sat, 01 Jul 2017 14:08:23 +0000

Local clock offset: 0.119 ms

Remote clock offset: -4.262 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:06:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 111.50 Mbit/s

95th percentile per-packet one-way delay: -3.115 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: -3.129 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: -3.074 ms

Loss rate: 0.42%

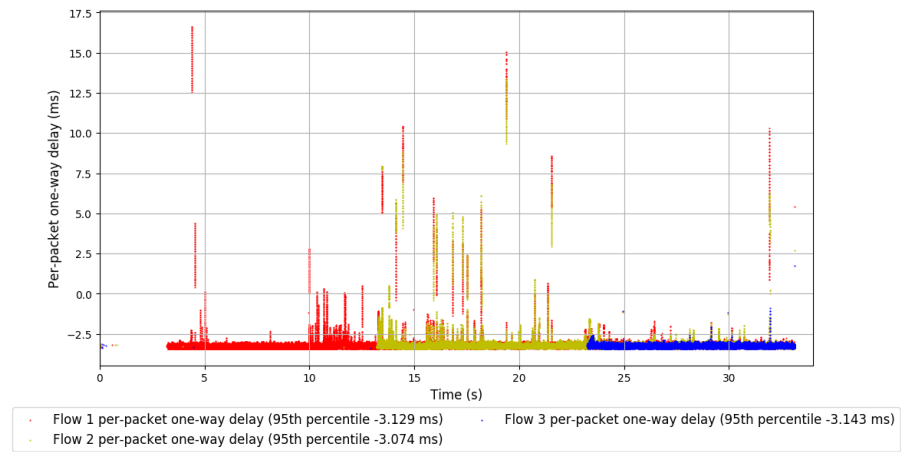
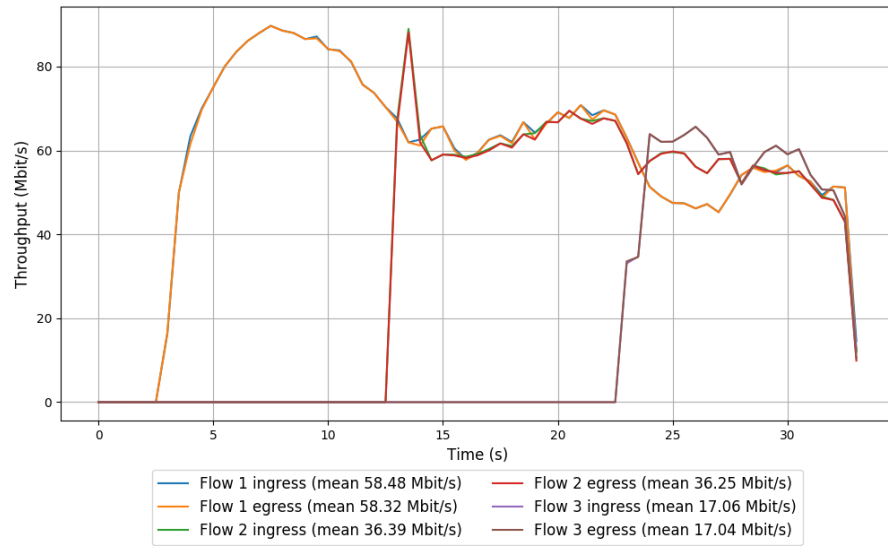
-- Flow 3:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: -3.143 ms

Loss rate: 0.16%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:28:30 +0000

End at: Sat, 01 Jul 2017 14:29:00 +0000

Local clock offset: 0.096 ms

Remote clock offset: -3.996 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:07:04 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.62 Mbit/s

95th percentile per-packet one-way delay: -2.867 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: -2.885 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: -2.878 ms

Loss rate: 0.11%

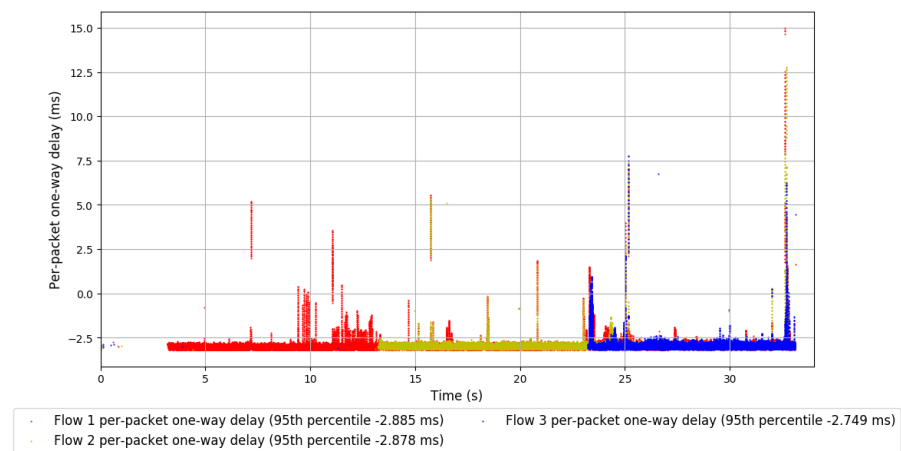
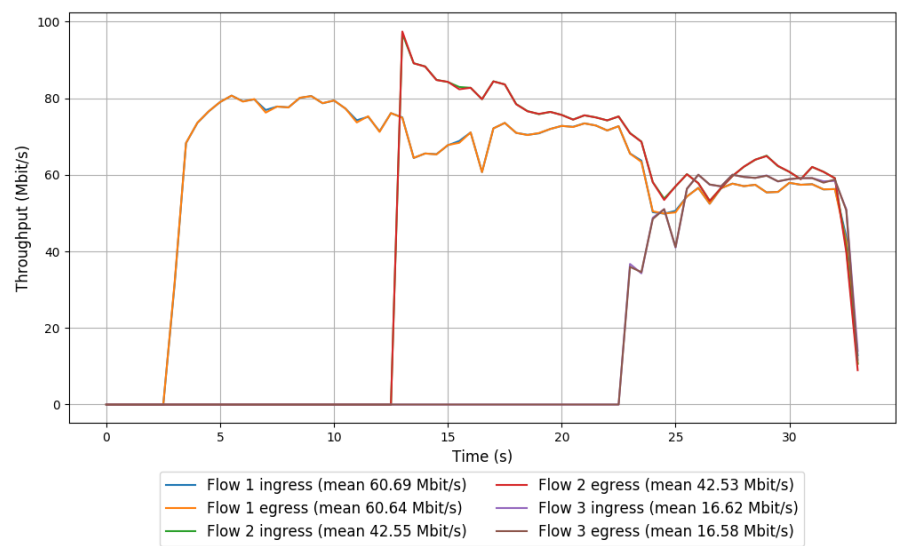
-- Flow 3:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: -2.749 ms

Loss rate: 0.29%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:49:12 +0000

End at: Sat, 01 Jul 2017 14:49:42 +0000

Local clock offset: 0.123 ms

Remote clock offset: -3.462 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:07:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 125.76 Mbit/s

95th percentile per-packet one-way delay: -2.185 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 67.24 Mbit/s

95th percentile per-packet one-way delay: -2.193 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: -2.231 ms

Loss rate: 0.12%

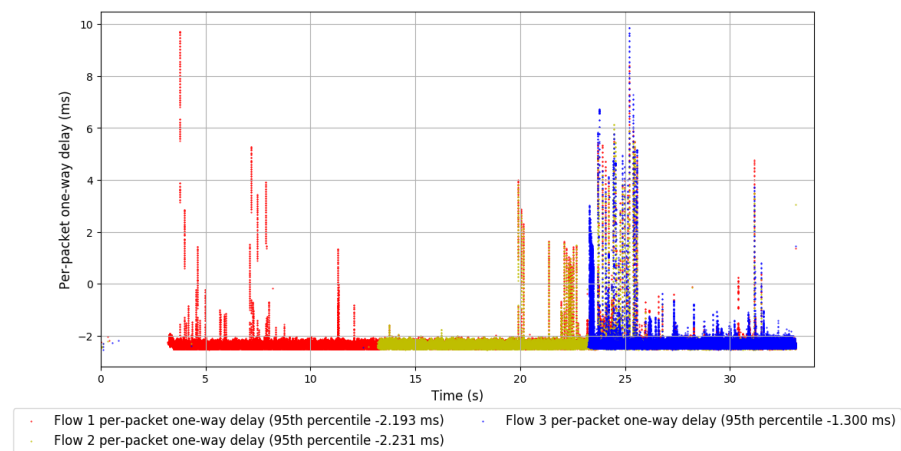
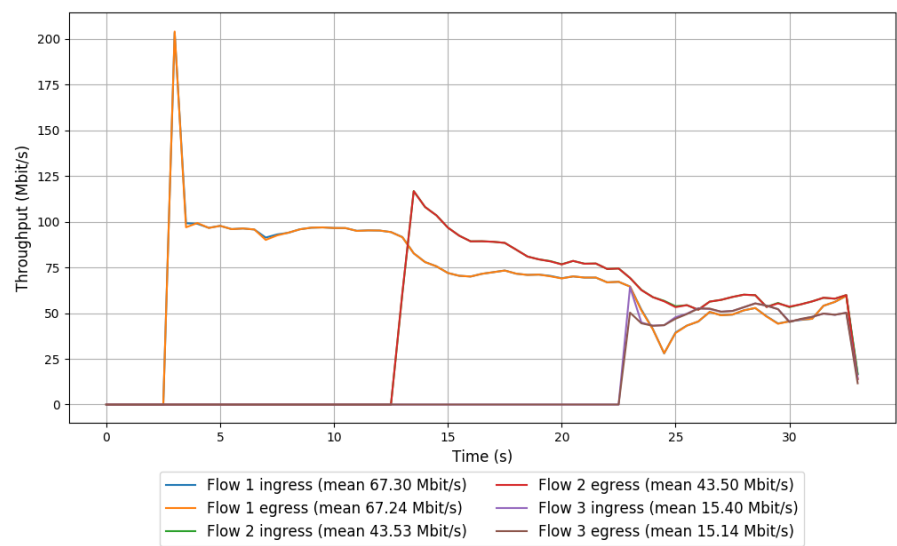
-- Flow 3:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: -1.300 ms

Loss rate: 1.75%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Sat, 01 Jul 2017 15:09:53 +0000

End at: Sat, 01 Jul 2017 15:10:23 +0000

Local clock offset: 0.227 ms

Remote clock offset: -2.614 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:07:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: -1.525 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: -1.525 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: -1.439 ms

Loss rate: 0.00%

-- Flow 3:

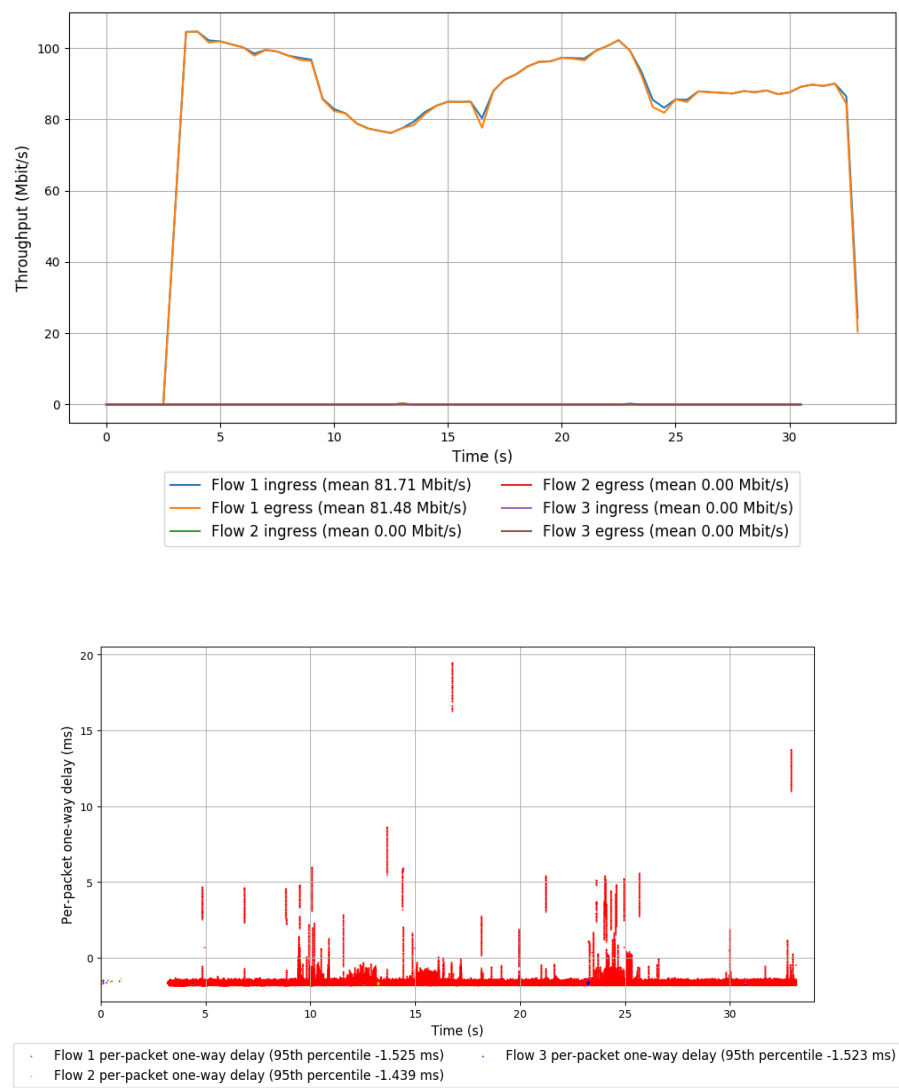
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: -1.523 ms

Loss rate: 0.00%



Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Sat, 01 Jul 2017 15:30:35 +0000

End at: Sat, 01 Jul 2017 15:31:05 +0000

Local clock offset: 0.26 ms

Remote clock offset: -2.189 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:07:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: -1.200 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: -1.218 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 41.83 Mbit/s

95th percentile per-packet one-way delay: -1.174 ms

Loss rate: 0.19%

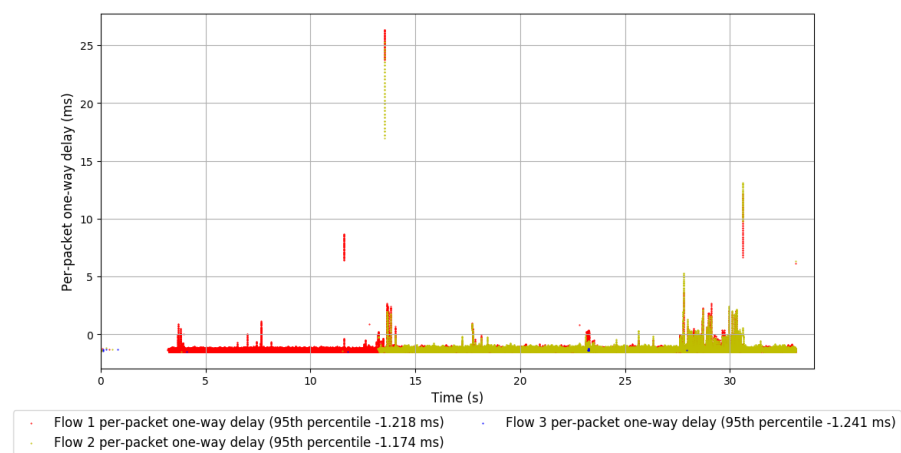
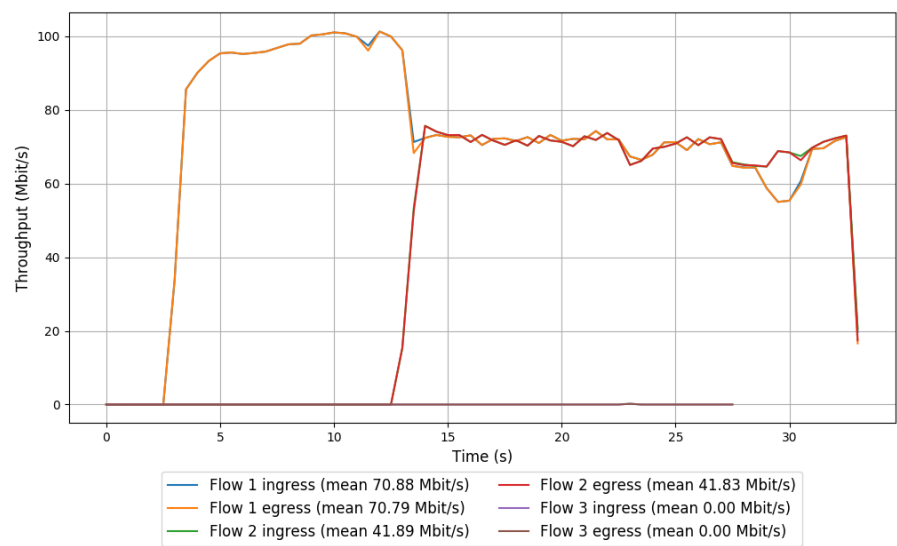
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: -1.241 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Sat, 01 Jul 2017 15:51:21 +0000

End at: Sat, 01 Jul 2017 15:51:51 +0000

Local clock offset: 0.343 ms

Remote clock offset: -2.232 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:08:04 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 122.33 Mbit/s

95th percentile per-packet one-way delay: -1.314 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: -1.352 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: -1.268 ms

Loss rate: 0.27%

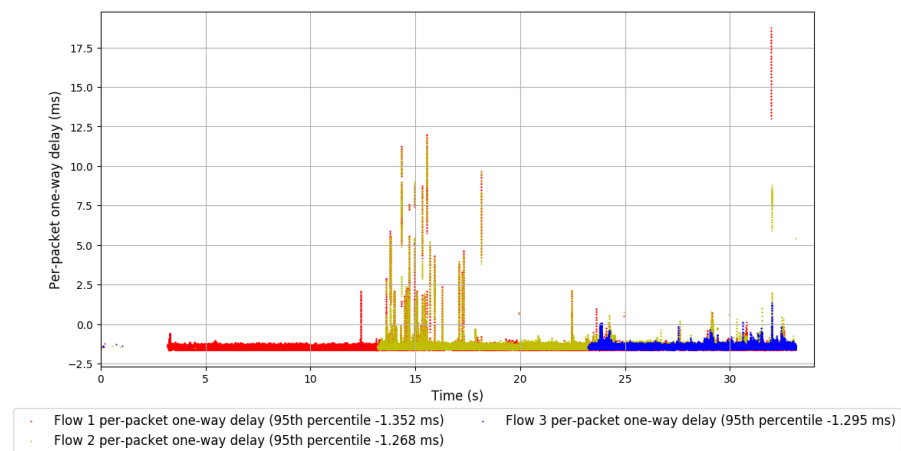
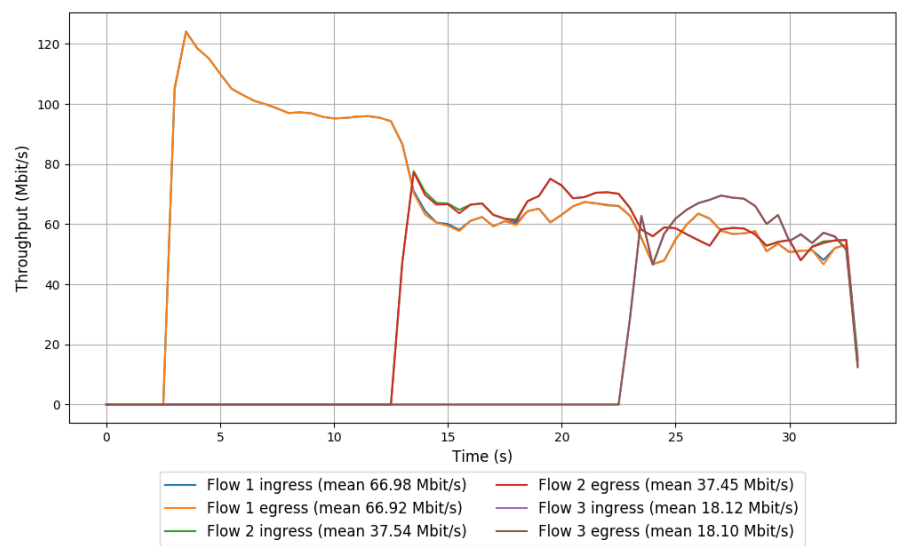
-- Flow 3:

Average throughput: 18.10 Mbit/s

95th percentile per-packet one-way delay: -1.295 ms

Loss rate: 0.17%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 12:47:13 +0000

End at: Sat, 01 Jul 2017 12:47:43 +0000

Local clock offset: -0.018 ms

Remote clock offset: -4.534 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:08:22 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.73 Mbit/s

95th percentile per-packet one-way delay: -3.078 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: -3.101 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: -3.056 ms

Loss rate: 0.29%

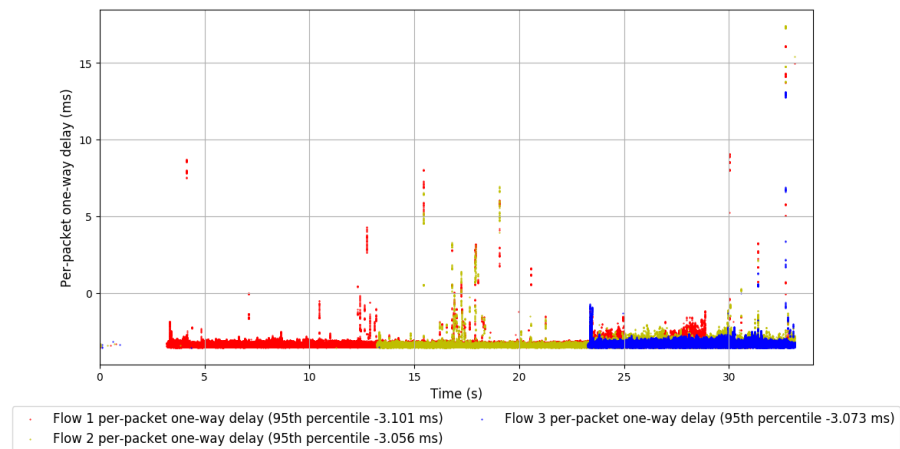
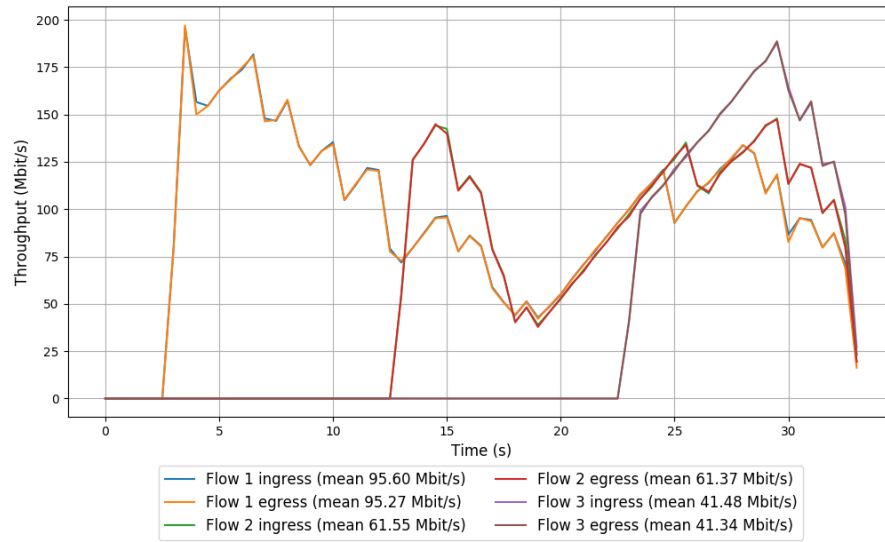
-- Flow 3:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: -3.073 ms

Loss rate: 0.37%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 13:08:02 +0000

End at: Sat, 01 Jul 2017 13:08:32 +0000

Local clock offset: 0.111 ms

Remote clock offset: -4.313 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:08:34 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 203.32 Mbit/s

95th percentile per-packet one-way delay: -3.030 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 99.91 Mbit/s

95th percentile per-packet one-way delay: -3.082 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: -2.990 ms

Loss rate: 0.32%

-- Flow 3:

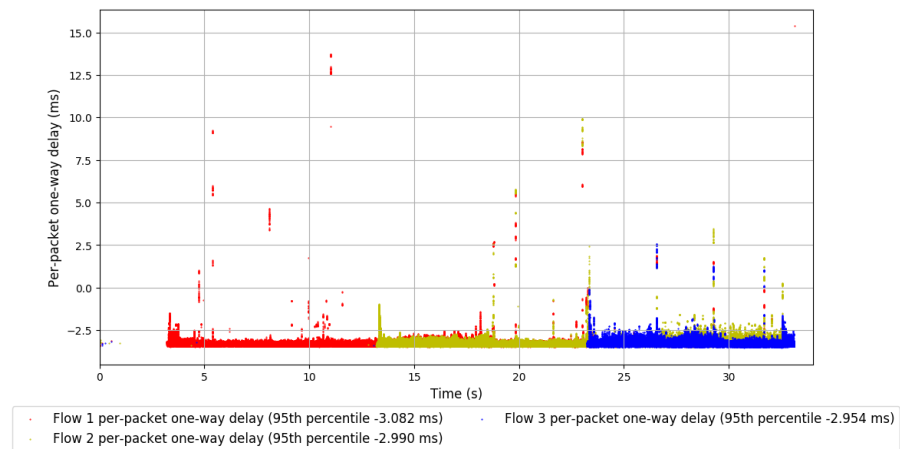
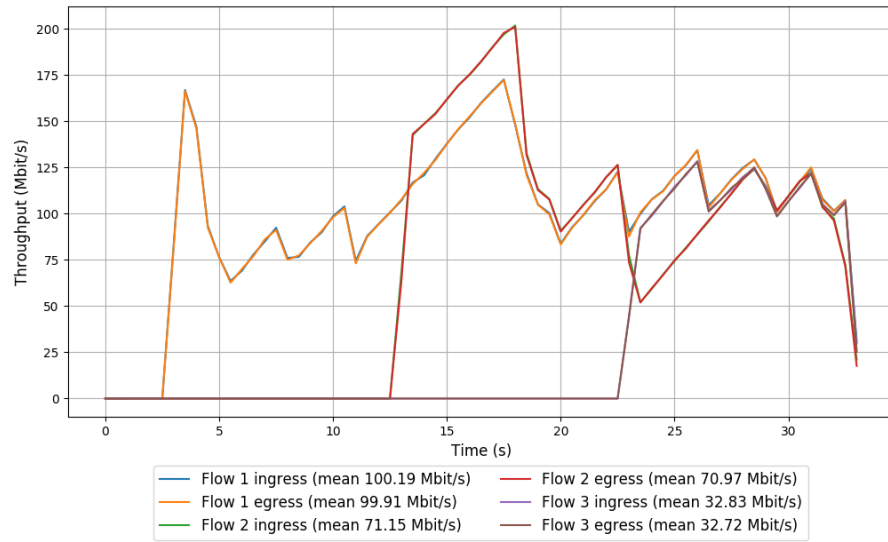
Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: -2.954 ms

Loss rate: 0.38%



## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 13:28:52 +0000

End at: Sat, 01 Jul 2017 13:29:22 +0000

Local clock offset: 0.043 ms

Remote clock offset: -4.699 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:08:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 189.59 Mbit/s

95th percentile per-packet one-way delay: -3.403 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: -3.440 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: -3.373 ms

Loss rate: 0.43%

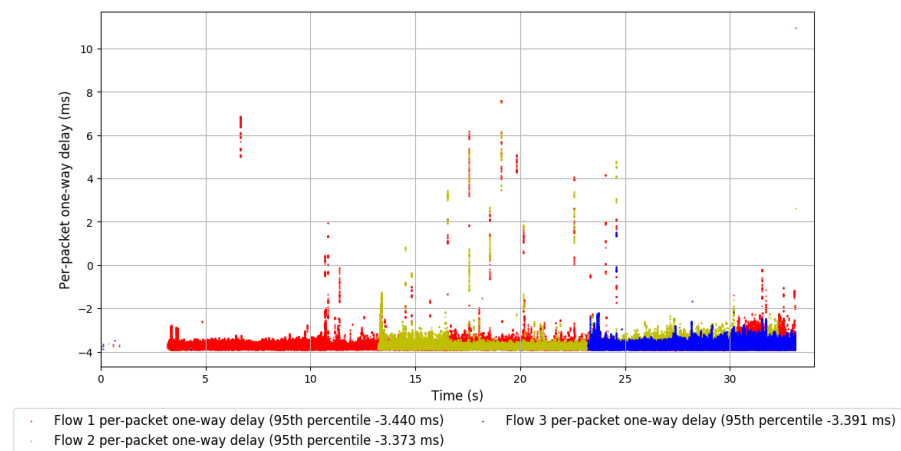
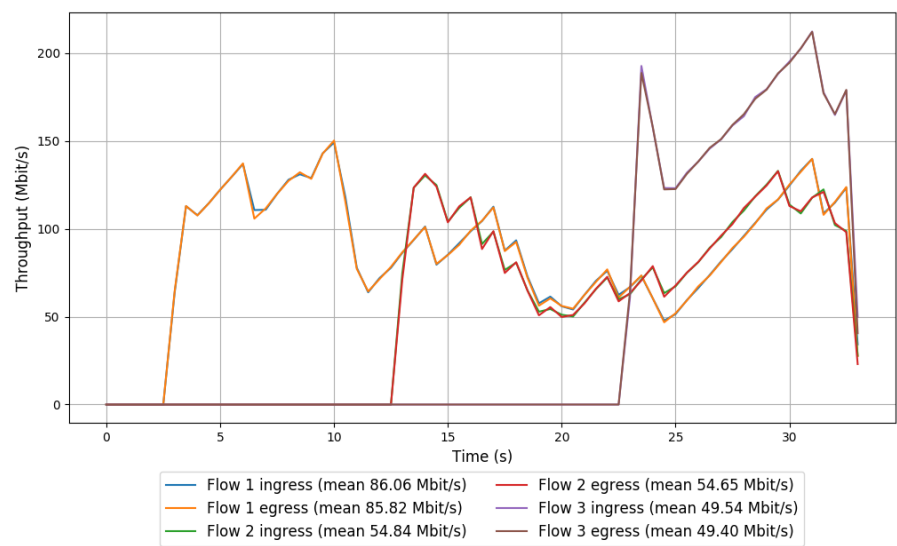
-- Flow 3:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: -3.391 ms

Loss rate: 0.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 13:49:43 +0000

End at: Sat, 01 Jul 2017 13:50:13 +0000

Local clock offset: 0.087 ms

Remote clock offset: -4.682 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:08:59 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 170.32 Mbit/s

95th percentile per-packet one-way delay: -3.319 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: -3.287 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: -3.394 ms

Loss rate: 0.45%

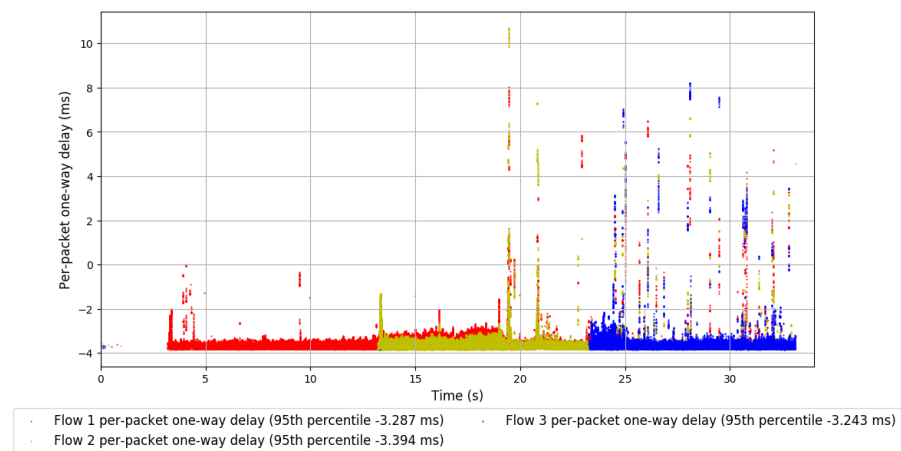
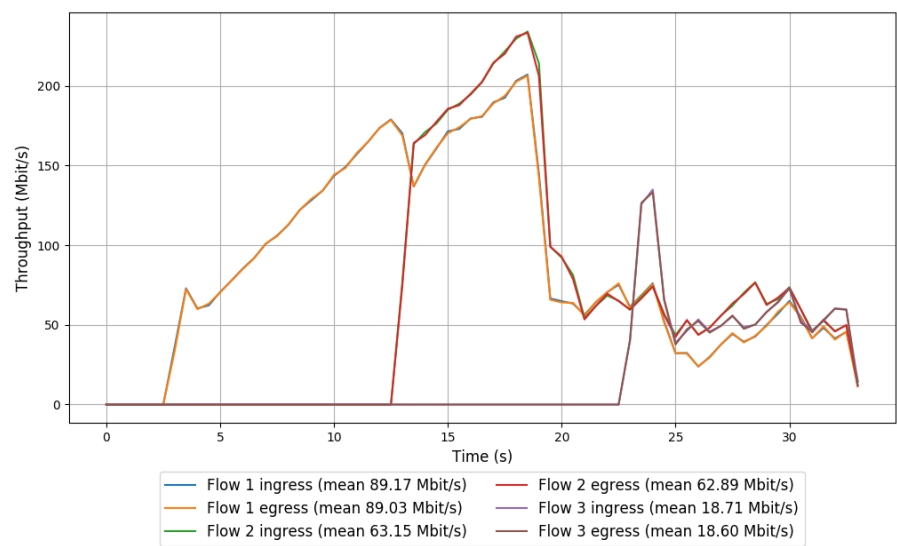
-- Flow 3:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: -3.243 ms

Loss rate: 0.64%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:10:26 +0000

End at: Sat, 01 Jul 2017 14:10:56 +0000

Local clock offset: 0.103 ms

Remote clock offset: -4.174 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:09:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 187.47 Mbit/s

95th percentile per-packet one-way delay: -2.824 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: -2.893 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 56.50 Mbit/s

95th percentile per-packet one-way delay: -2.689 ms

Loss rate: 0.43%

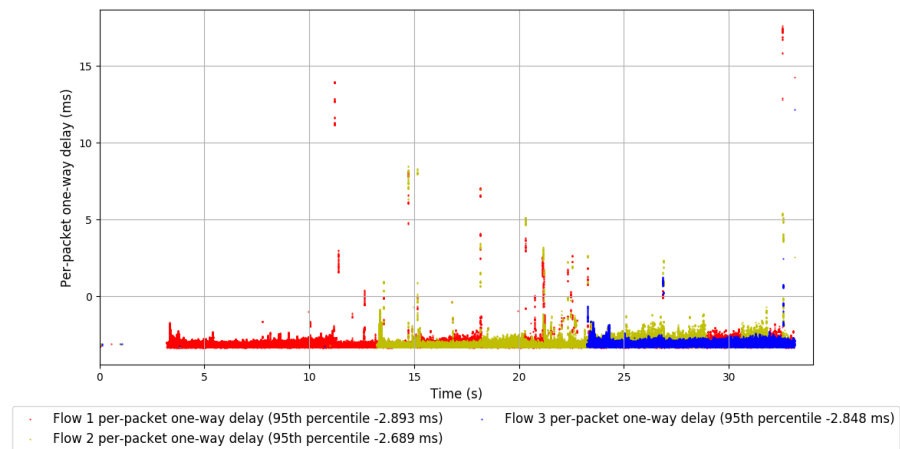
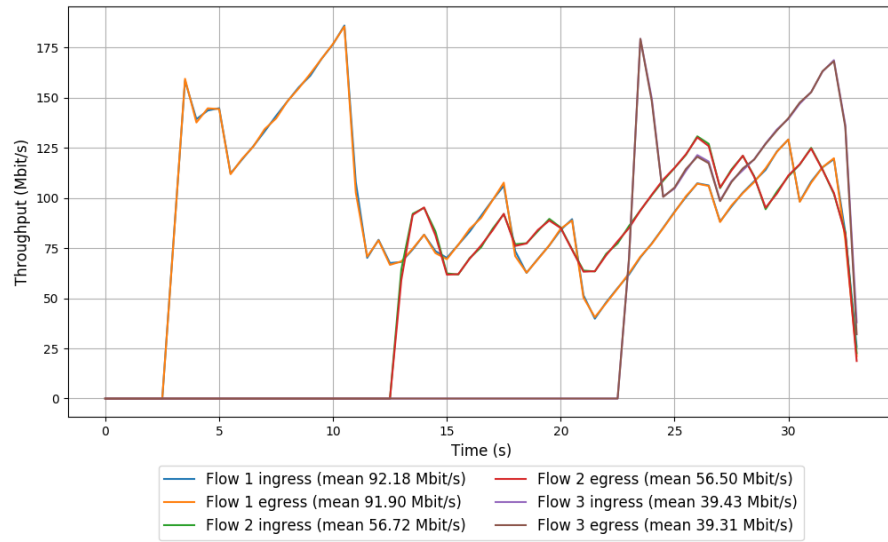
-- Flow 3:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: -2.848 ms

Loss rate: 0.32%

## Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:31:04 +0000

End at: Sat, 01 Jul 2017 14:31:34 +0000

Local clock offset: 0.177 ms

Remote clock offset: -3.98 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:09:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 171.67 Mbit/s

95th percentile per-packet one-way delay: -2.463 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: -2.585 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: -2.383 ms

Loss rate: 0.66%

-- Flow 3:

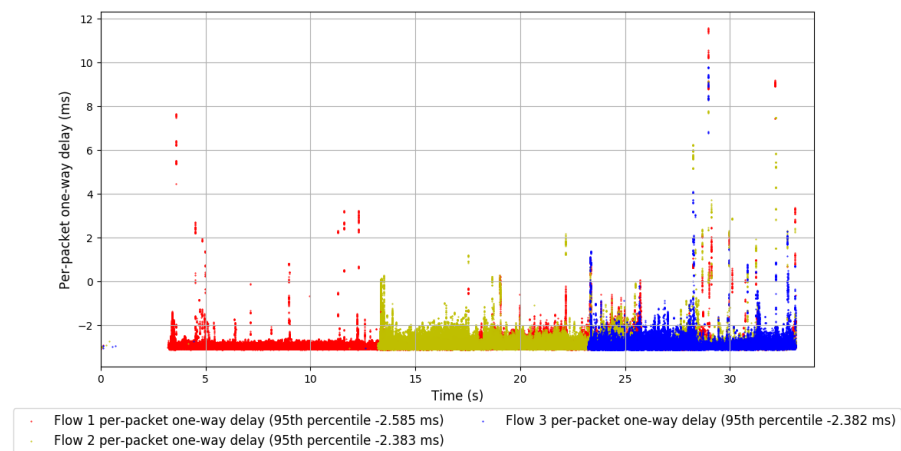
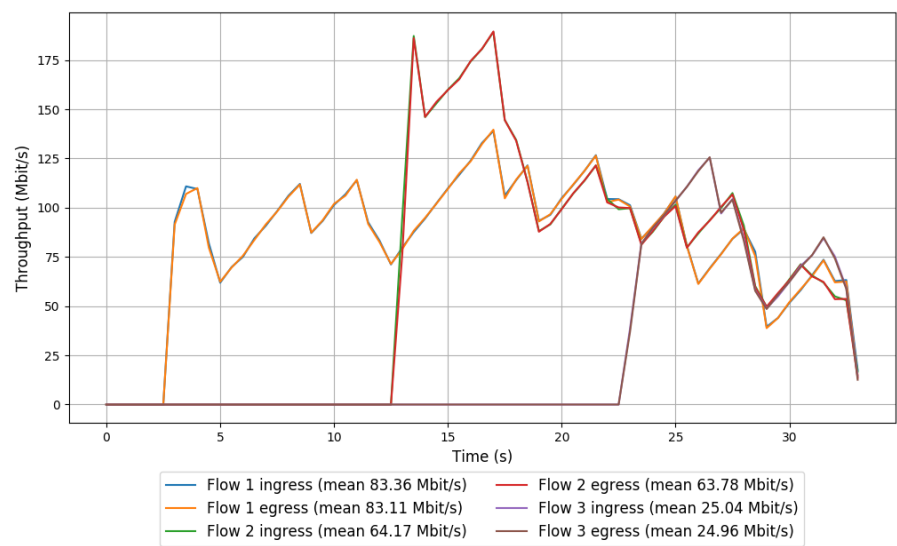
Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: -2.382 ms

Loss rate: 0.38%



Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:51:47 +0000

End at: Sat, 01 Jul 2017 14:52:17 +0000

Local clock offset: 0.006 ms

Remote clock offset: -3.44 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:09:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 205.37 Mbit/s

95th percentile per-packet one-way delay: -1.901 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 105.86 Mbit/s

95th percentile per-packet one-way delay: -1.871 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: -1.869 ms

Loss rate: 0.27%

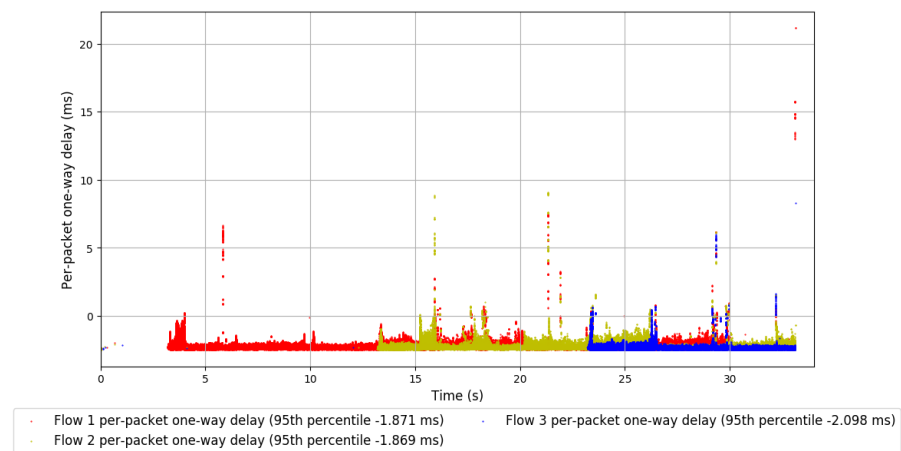
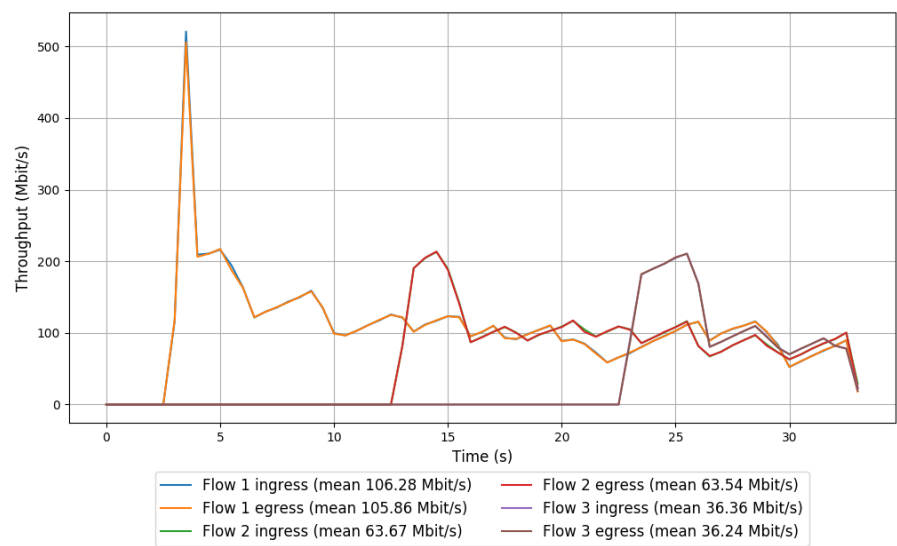
-- Flow 3:

Average throughput: 36.24 Mbit/s

95th percentile per-packet one-way delay: -2.098 ms

Loss rate: 0.35%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 15:12:23 +0000

End at: Sat, 01 Jul 2017 15:12:53 +0000

Local clock offset: 0.165 ms

Remote clock offset: -2.423 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:09:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 179.66 Mbit/s

95th percentile per-packet one-way delay: -1.274 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: -1.369 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: -1.239 ms

Loss rate: 0.35%

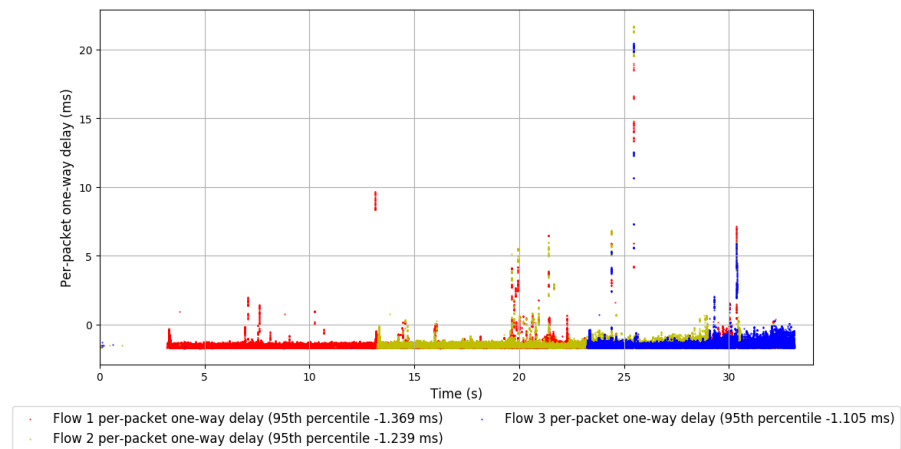
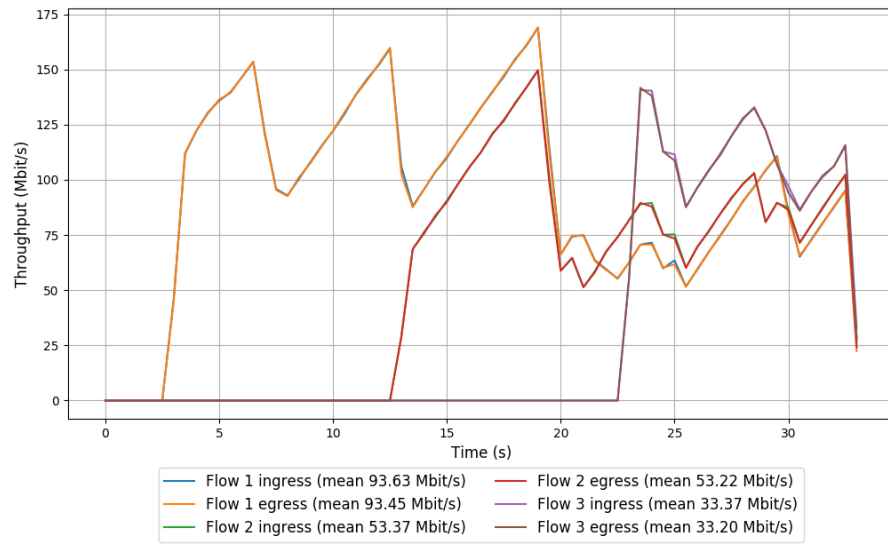
-- Flow 3:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: -1.105 ms

Loss rate: 0.60%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 15:33:08 +0000

End at: Sat, 01 Jul 2017 15:33:38 +0000

Local clock offset: 0.365 ms

Remote clock offset: -2.19 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:10:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 161.16 Mbit/s

95th percentile per-packet one-way delay: -1.042 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: -1.092 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: -1.061 ms

Loss rate: 0.66%

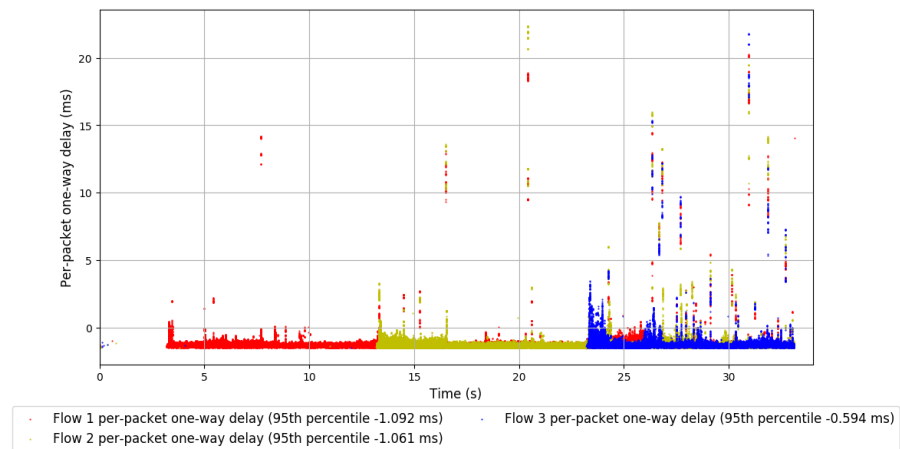
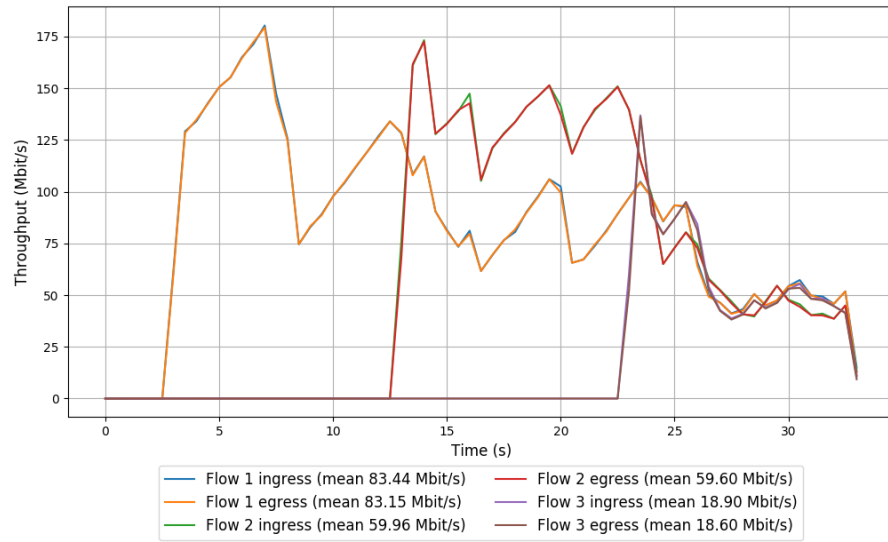
-- Flow 3:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: -0.594 ms

Loss rate: 1.66%

## Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 15:53:56 +0000

End at: Sat, 01 Jul 2017 15:54:26 +0000

Local clock offset: 0.447 ms

Remote clock offset: -2.21 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:10:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 177.11 Mbit/s

95th percentile per-packet one-way delay: -1.158 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 91.50 Mbit/s

95th percentile per-packet one-way delay: -1.193 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: -1.159 ms

Loss rate: 0.45%

-- Flow 3:

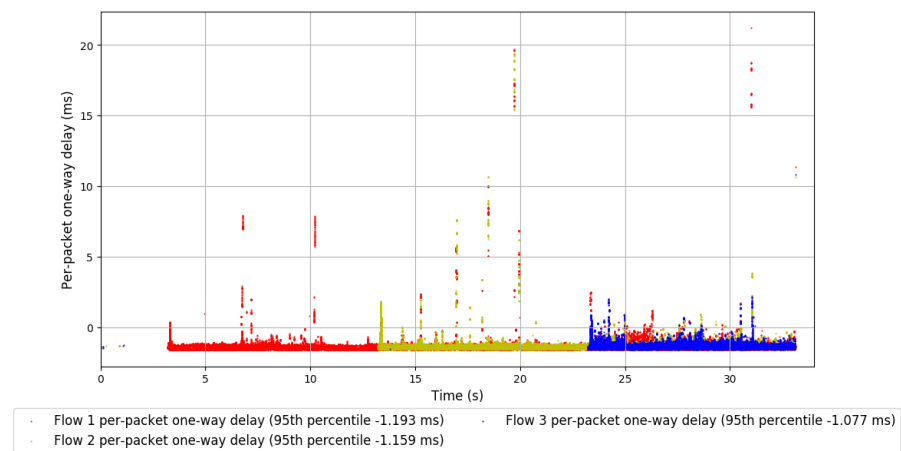
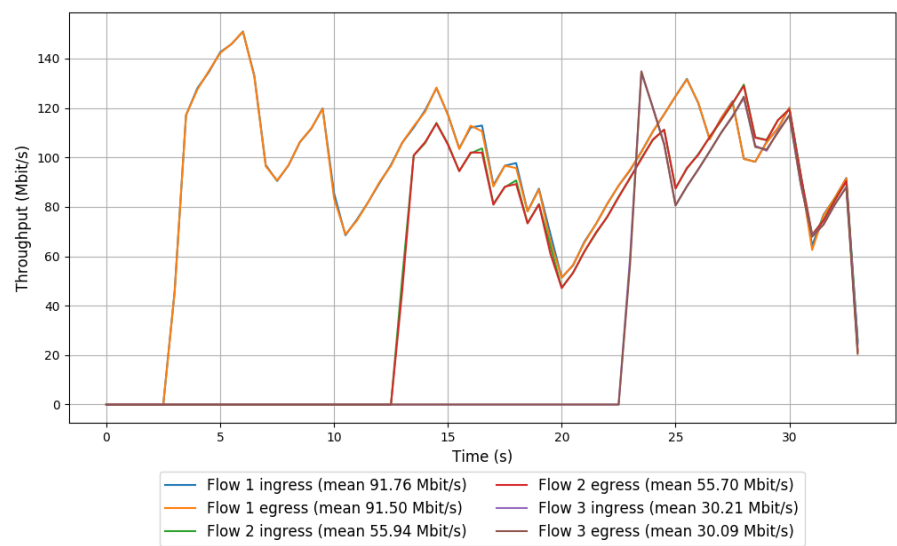
Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: -1.077 ms

Loss rate: 0.40%



Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 12:36:54 +0000

End at: Sat, 01 Jul 2017 12:37:24 +0000

Local clock offset: -0.05 ms

Remote clock offset: -4.715 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:10:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.50 Mbit/s

95th percentile per-packet one-way delay: -3.395 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: -3.410 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 35.96 Mbit/s

95th percentile per-packet one-way delay: -3.386 ms

Loss rate: 0.17%

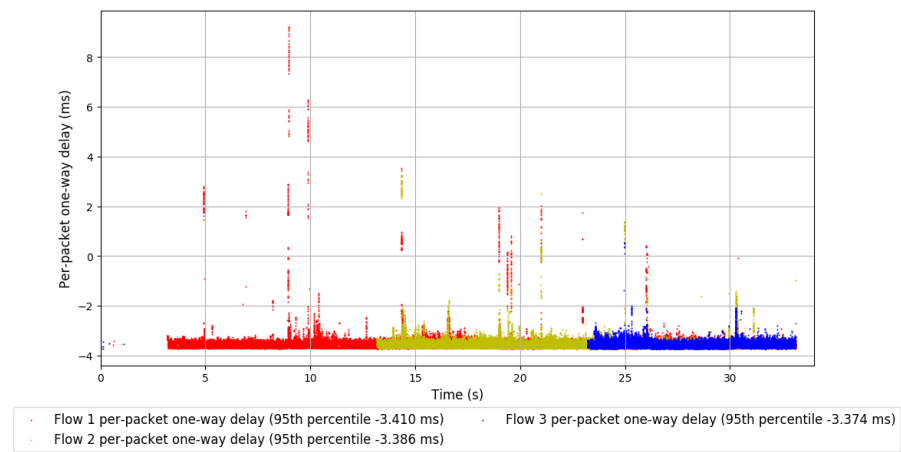
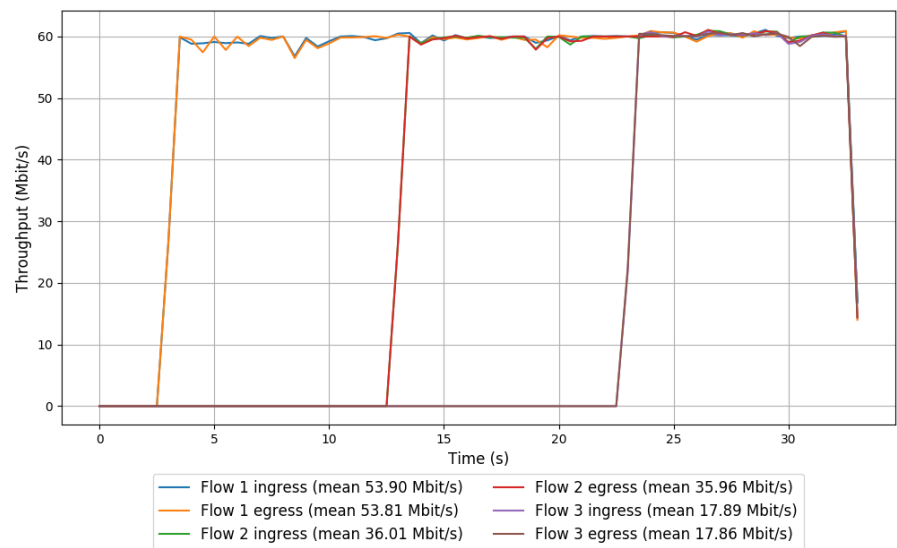
-- Flow 3:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: -3.374 ms

Loss rate: 0.20%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 12:57:42 +0000

End at: Sat, 01 Jul 2017 12:58:12 +0000

Local clock offset: 0.107 ms

Remote clock offset: -4.304 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:10:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.39 Mbit/s

95th percentile per-packet one-way delay: -3.040 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 53.36 Mbit/s

95th percentile per-packet one-way delay: -3.049 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: -3.036 ms

Loss rate: 0.13%

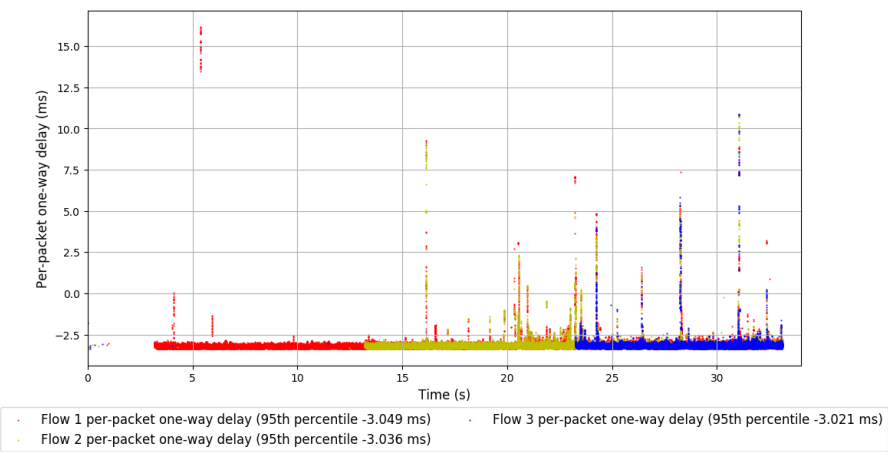
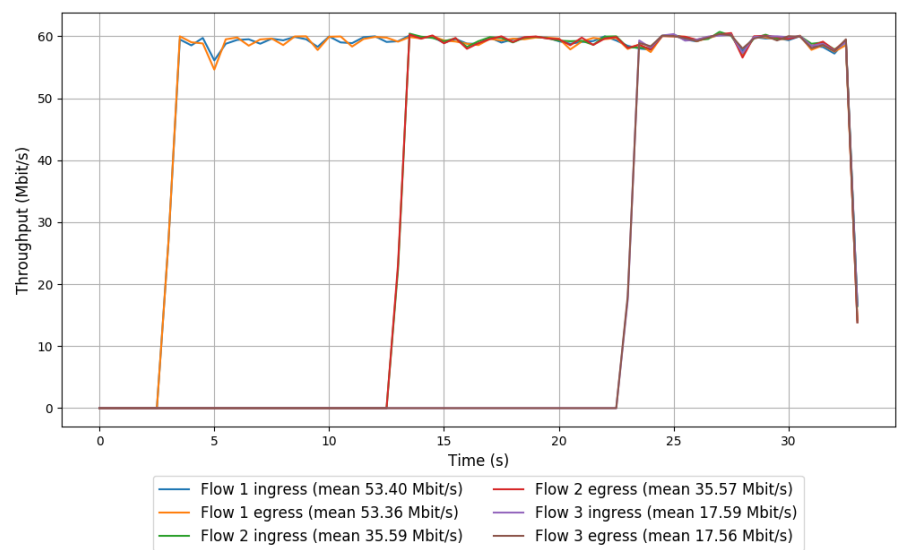
-- Flow 3:

Average throughput: 17.56 Mbit/s

95th percentile per-packet one-way delay: -3.021 ms

Loss rate: 0.24%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 13:18:32 +0000

End at: Sat, 01 Jul 2017 13:19:02 +0000

Local clock offset: 0.1 ms

Remote clock offset: -4.496 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:10:44 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.76 Mbit/s

95th percentile per-packet one-way delay: -3.401 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 53.58 Mbit/s

95th percentile per-packet one-way delay: -3.414 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: -3.391 ms

Loss rate: 0.12%

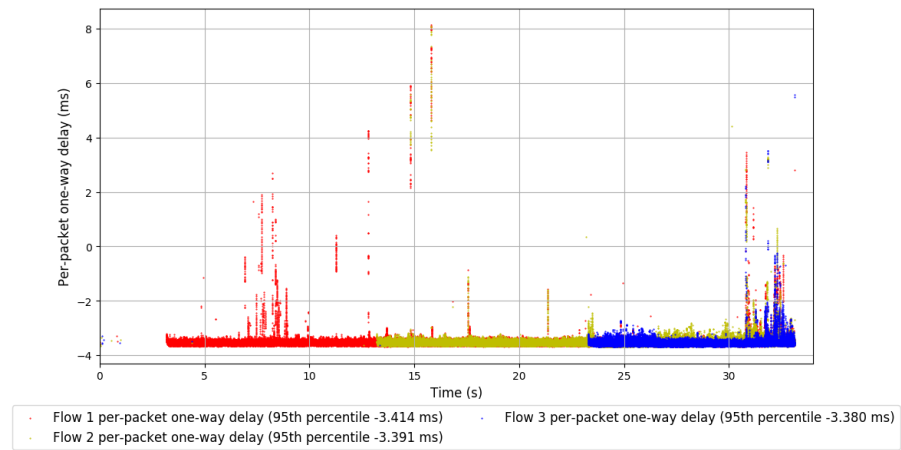
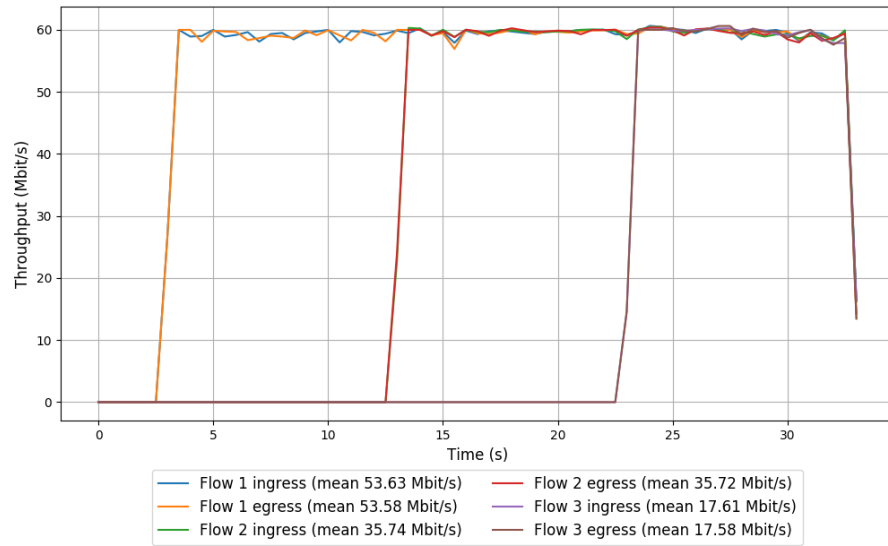
-- Flow 3:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: -3.380 ms

Loss rate: 0.20%

### Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 13:39:22 +0000

End at: Sat, 01 Jul 2017 13:39:52 +0000

Local clock offset: 0.168 ms

Remote clock offset: -4.882 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:10:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.61 Mbit/s

95th percentile per-packet one-way delay: -3.789 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 53.50 Mbit/s

95th percentile per-packet one-way delay: -3.787 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: -3.791 ms

Loss rate: 0.25%

-- Flow 3:

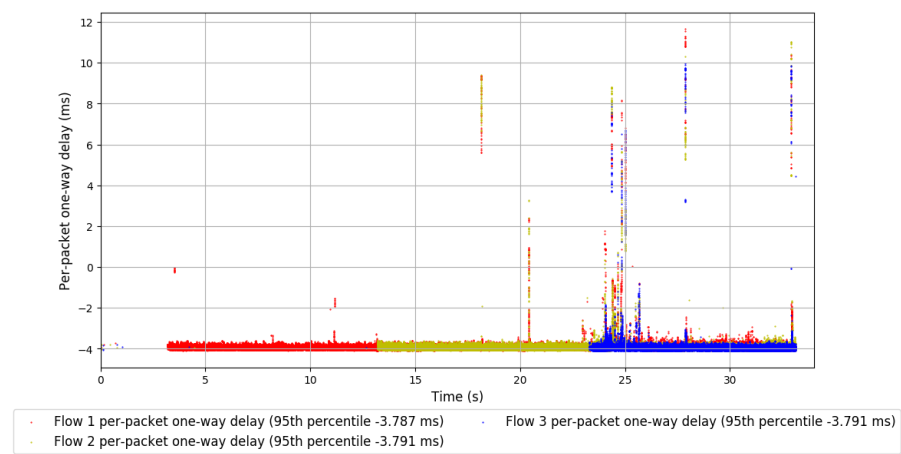
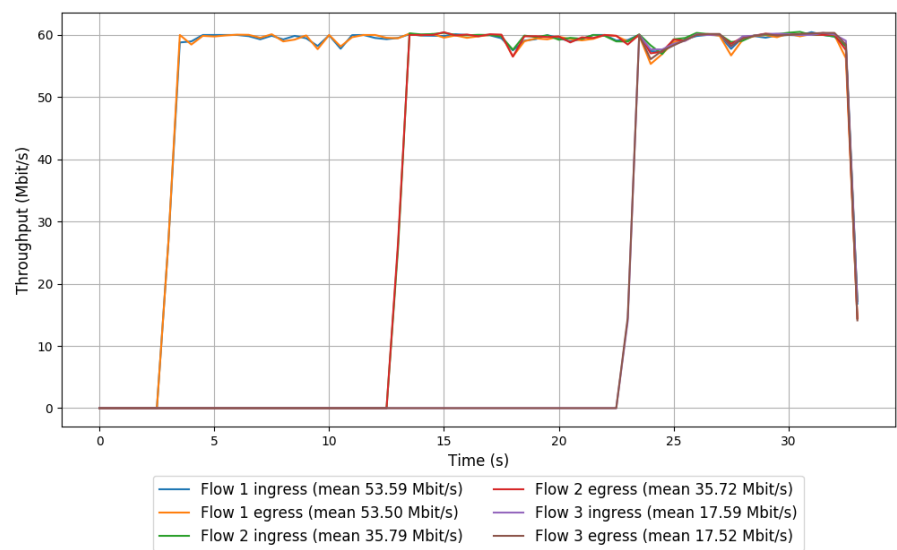
Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: -3.791 ms

Loss rate: 0.43%



Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 14:00:07 +0000

End at: Sat, 01 Jul 2017 14:00:37 +0000

Local clock offset: 0.111 ms

Remote clock offset: -4.456 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:00 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 105.92 Mbit/s

95th percentile per-packet one-way delay: -3.272 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: -3.264 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: -3.282 ms

Loss rate: 0.30%

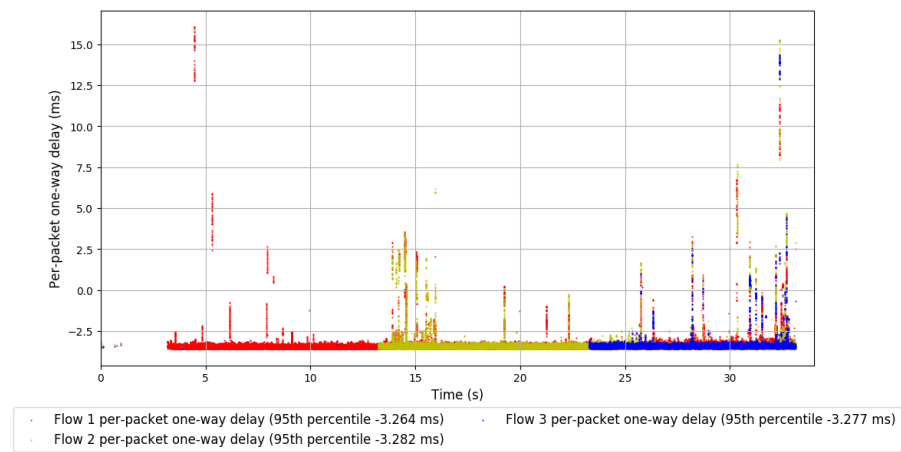
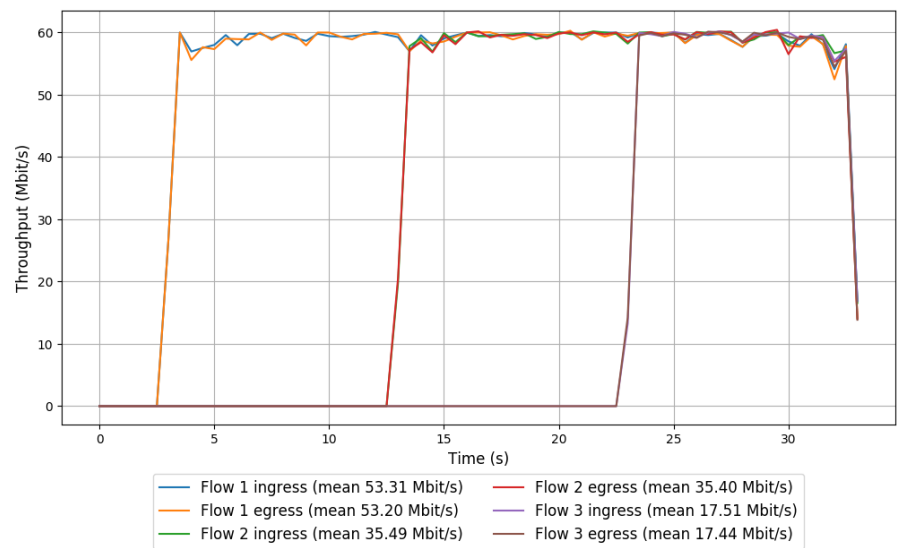
-- Flow 3:

Average throughput: 17.44 Mbit/s

95th percentile per-packet one-way delay: -3.277 ms

Loss rate: 0.42%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 14:20:47 +0000

End at: Sat, 01 Jul 2017 14:21:17 +0000

Local clock offset: 0.126 ms

Remote clock offset: -3.95 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:07 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.32 Mbit/s

95th percentile per-packet one-way delay: -2.775 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: -2.701 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: -2.860 ms

Loss rate: 0.24%

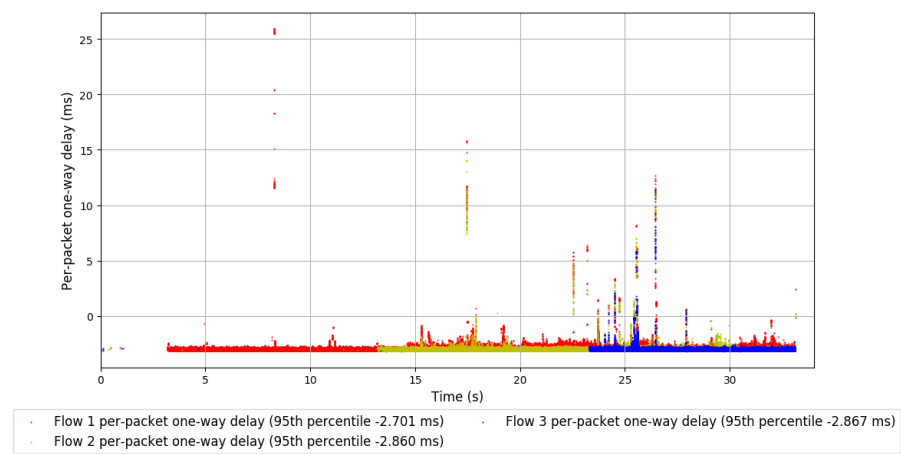
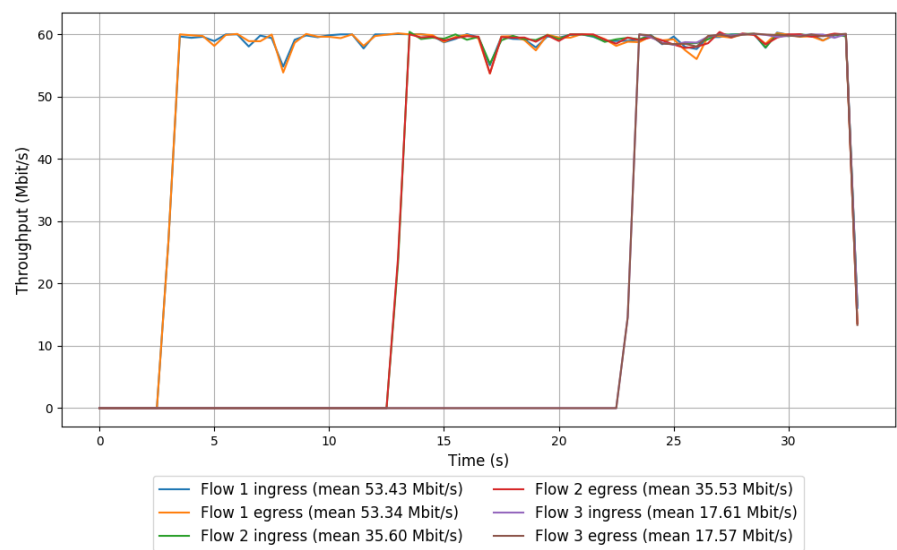
-- Flow 3:

Average throughput: 17.57 Mbit/s

95th percentile per-packet one-way delay: -2.867 ms

Loss rate: 0.27%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 14:41:30 +0000

End at: Sat, 01 Jul 2017 14:42:00 +0000

Local clock offset: 0.121 ms

Remote clock offset: -3.576 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.25 Mbit/s

95th percentile per-packet one-way delay: -2.288 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: -2.311 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: -2.222 ms

Loss rate: 0.15%

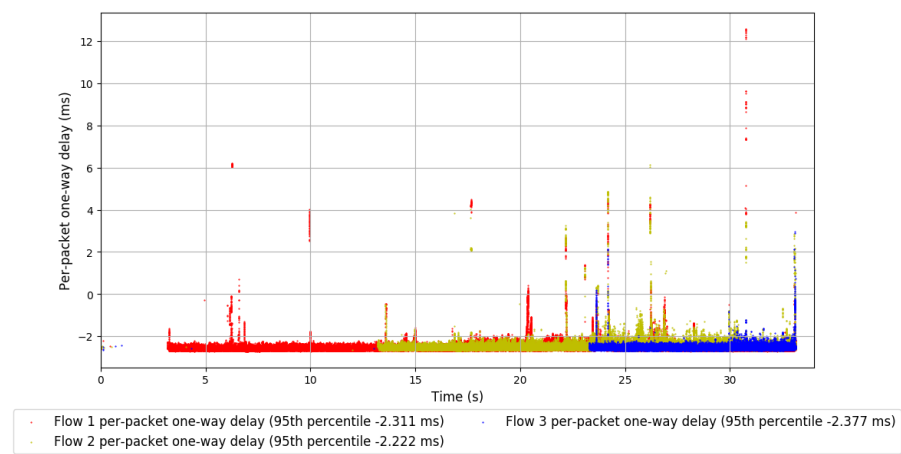
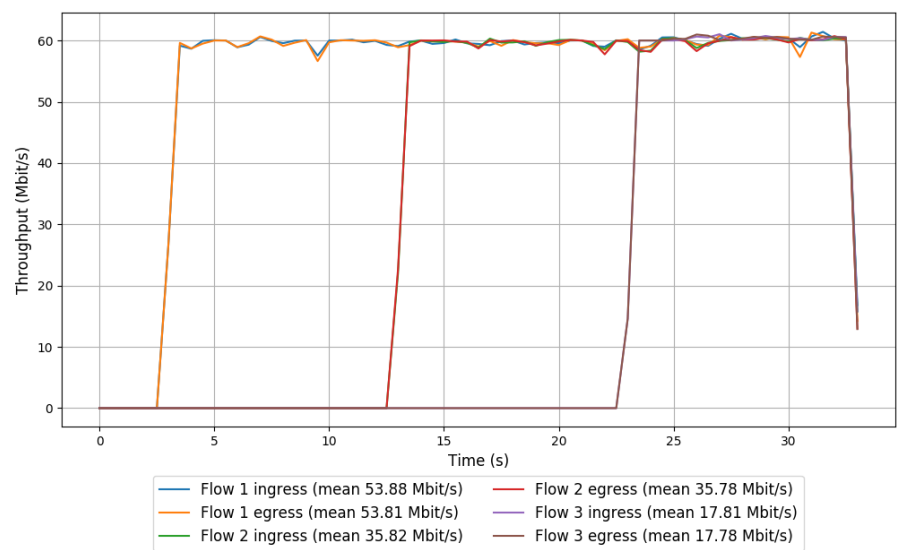
-- Flow 3:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: -2.377 ms

Loss rate: 0.20%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 15:02:11 +0000

End at: Sat, 01 Jul 2017 15:02:41 +0000

Local clock offset: 0.167 ms

Remote clock offset: -2.977 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:24 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.11 Mbit/s

95th percentile per-packet one-way delay: -1.759 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: -1.739 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: -1.780 ms

Loss rate: 0.12%

-- Flow 3:

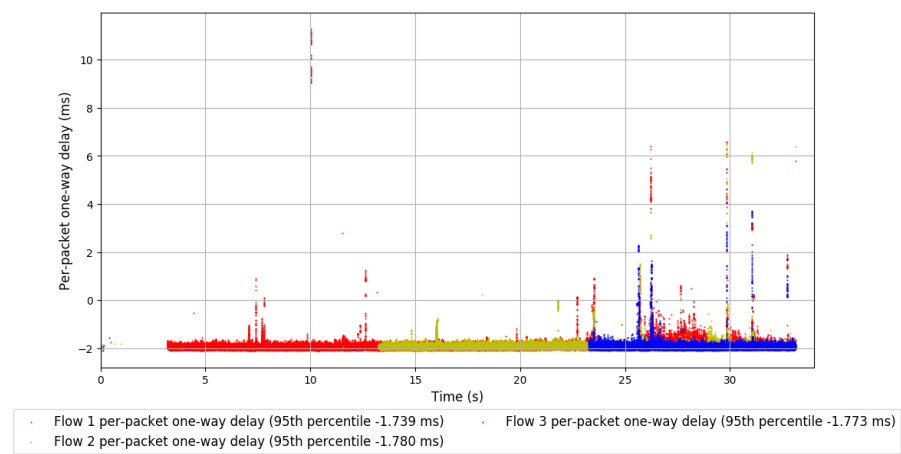
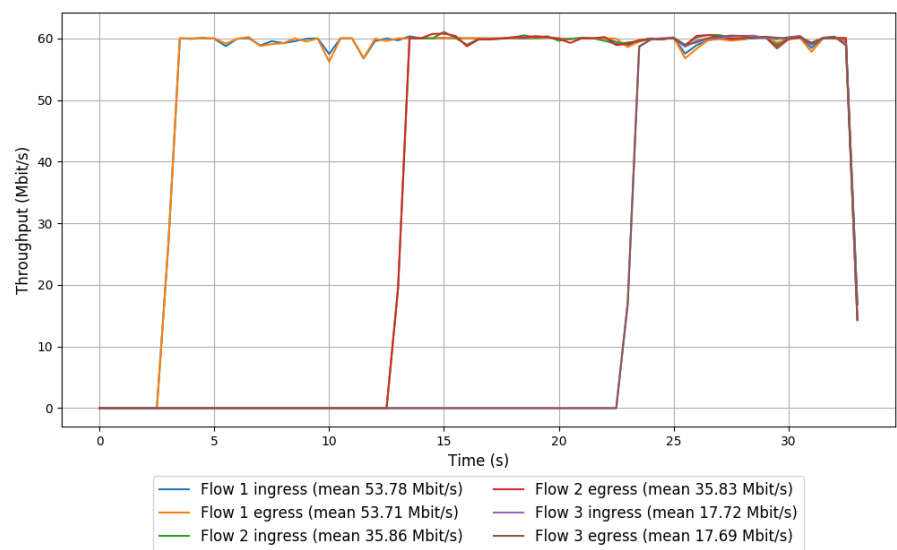
Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: -1.773 ms

Loss rate: 0.22%



Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 15:22:49 +0000

End at: Sat, 01 Jul 2017 15:23:19 +0000

Local clock offset: 0.291 ms

Remote clock offset: -2.144 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.62 Mbit/s

95th percentile per-packet one-way delay: -1.053 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: -1.069 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 35.54 Mbit/s

95th percentile per-packet one-way delay: -1.015 ms

Loss rate: 0.33%

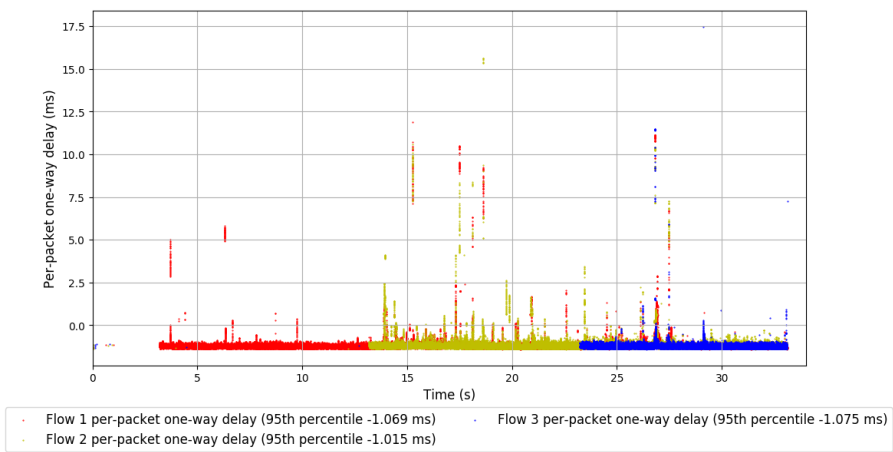
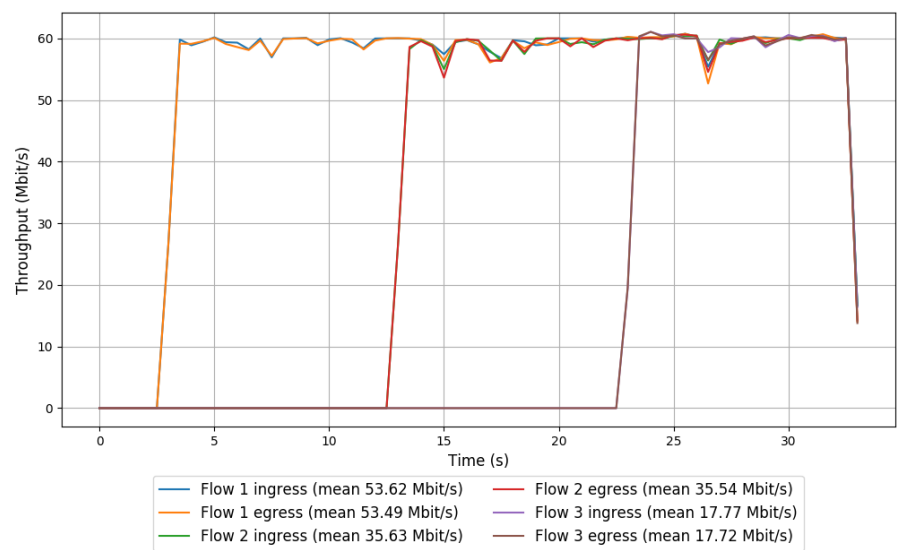
-- Flow 3:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: -1.075 ms

Loss rate: 0.31%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 15:43:33 +0000

End at: Sat, 01 Jul 2017 15:44:03 +0000

Local clock offset: 0.431 ms

Remote clock offset: -2.206 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:40 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 104.11 Mbit/s

95th percentile per-packet one-way delay: -1.084 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: -1.220 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: -0.923 ms

Loss rate: 0.97%

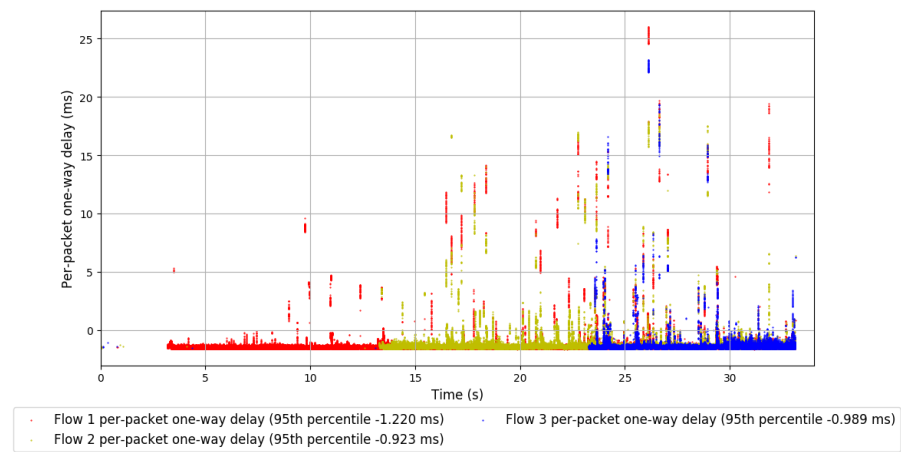
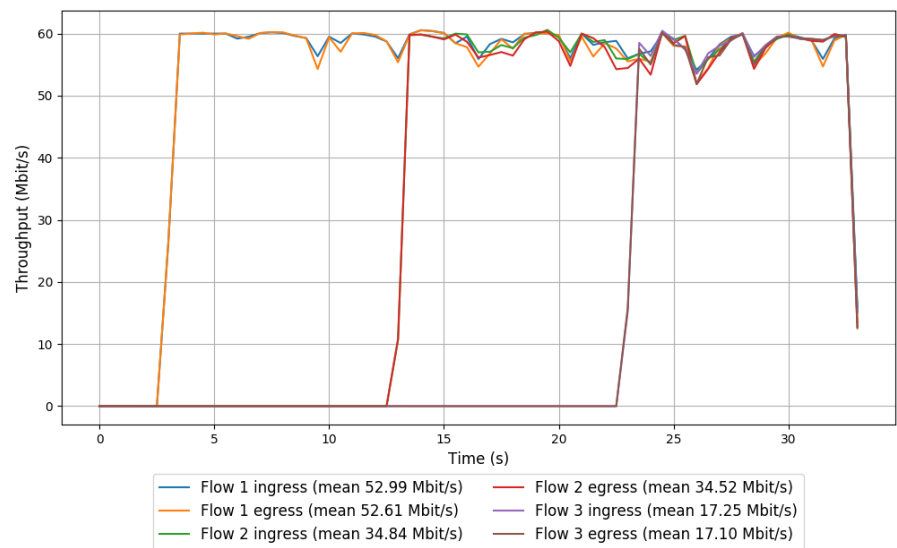
-- Flow 3:

Average throughput: 17.10 Mbit/s

95th percentile per-packet one-way delay: -0.989 ms

Loss rate: 0.93%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 12:38:12 +0000

End at: Sat, 01 Jul 2017 12:38:42 +0000

Local clock offset: -0.054 ms

Remote clock offset: -4.625 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:11:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.67 Mbit/s

95th percentile per-packet one-way delay: -3.043 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 69.66 Mbit/s

95th percentile per-packet one-way delay: -3.125 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: -2.936 ms

Loss rate: 0.35%

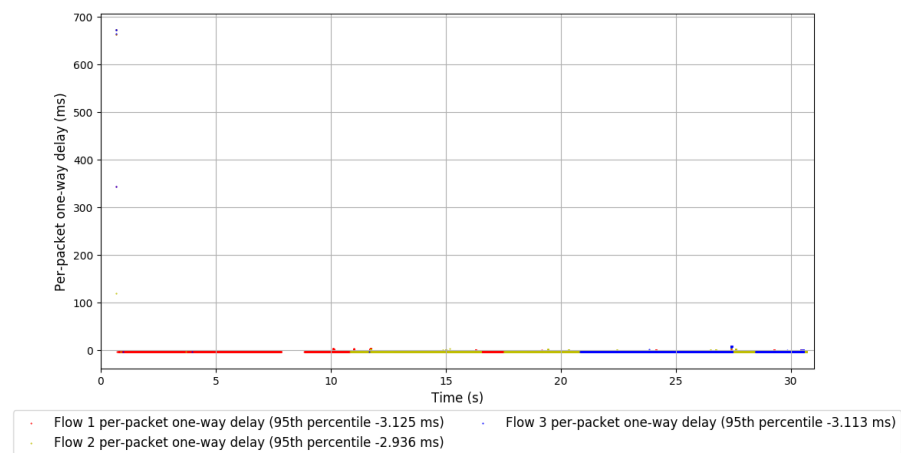
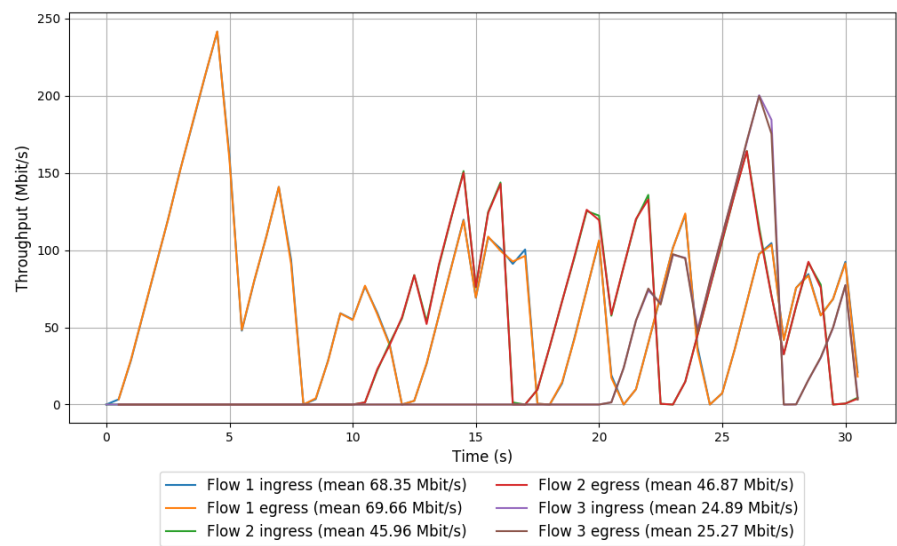
-- Flow 3:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: -3.113 ms

Loss rate: 0.70%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 12:59:01 +0000

End at: Sat, 01 Jul 2017 12:59:31 +0000

Local clock offset: 0.083 ms

Remote clock offset: -4.237 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 167.15 Mbit/s

95th percentile per-packet one-way delay: -2.824 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: -2.860 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: -2.752 ms

Loss rate: 0.31%

-- Flow 3:

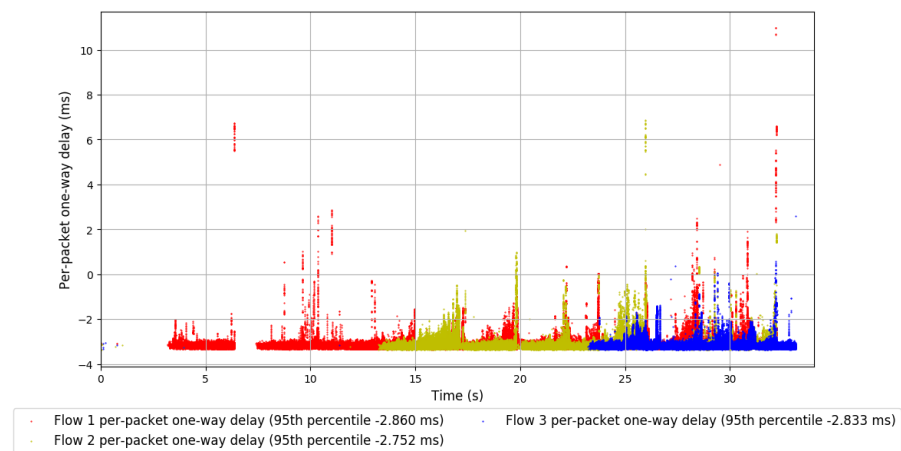
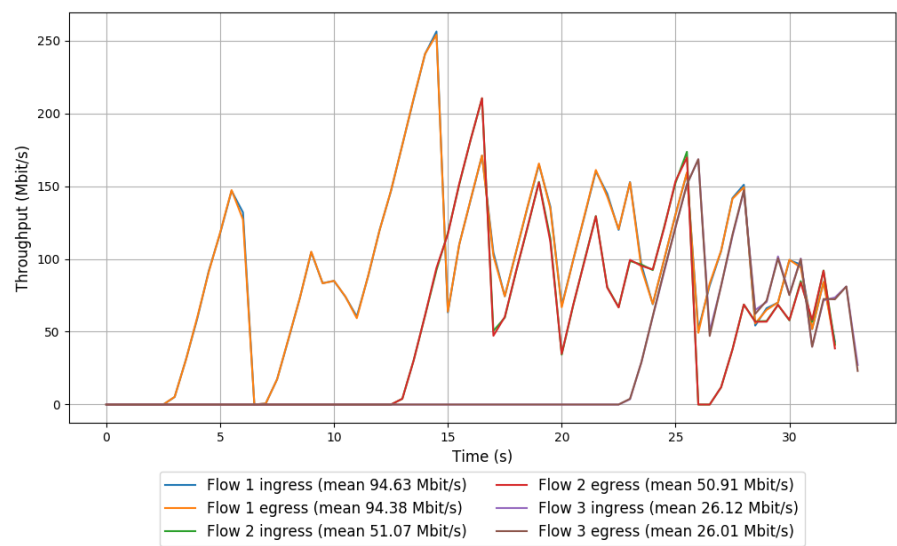
Average throughput: 26.01 Mbit/s

95th percentile per-packet one-way delay: -2.833 ms

Loss rate: 0.49%



Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 13:19:50 +0000

End at: Sat, 01 Jul 2017 13:20:20 +0000

Local clock offset: 0.152 ms

Remote clock offset: -4.645 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:07 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: -3.206 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: -3.199 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: -3.261 ms

Loss rate: 0.79%

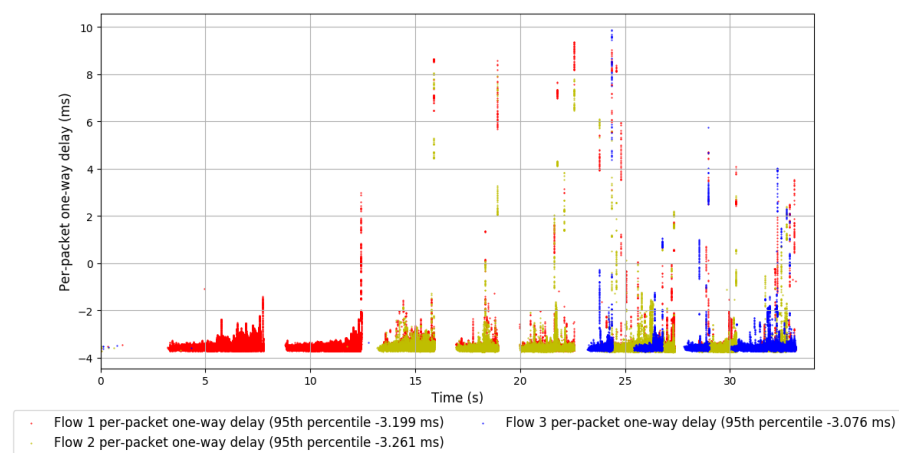
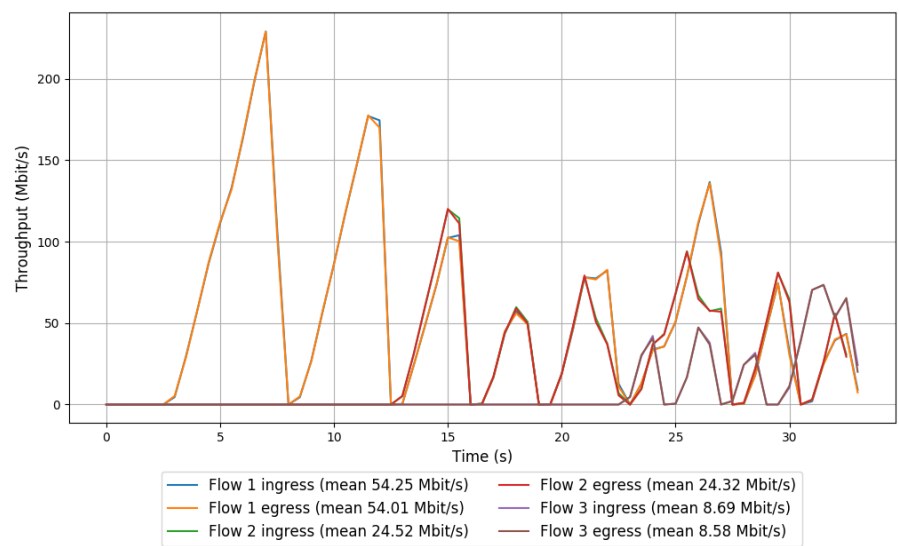
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: -3.076 ms

Loss rate: 1.32%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 13:40:40 +0000

End at: Sat, 01 Jul 2017 13:41:10 +0000

Local clock offset: 0.169 ms

Remote clock offset: -5.023 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.80 Mbit/s

95th percentile per-packet one-way delay: -3.526 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 73.18 Mbit/s

95th percentile per-packet one-way delay: -3.403 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: -3.710 ms

Loss rate: 0.49%

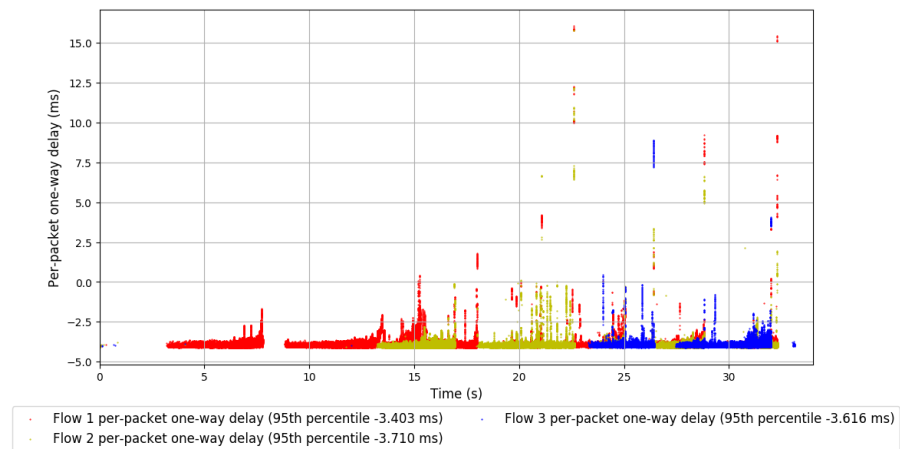
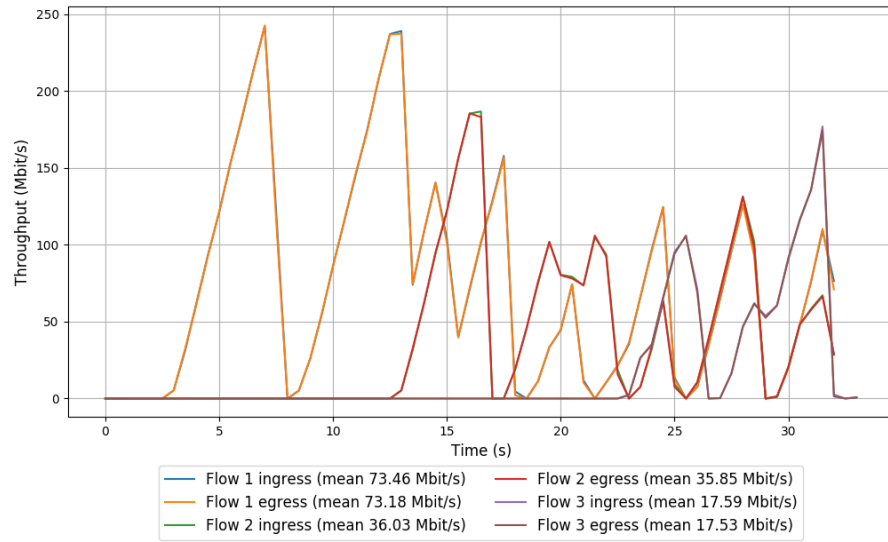
-- Flow 3:

Average throughput: 17.53 Mbit/s

95th percentile per-packet one-way delay: -3.616 ms

Loss rate: 0.44%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 14:01:26 +0000

End at: Sat, 01 Jul 2017 14:01:56 +0000

Local clock offset: 0.2 ms

Remote clock offset: -4.355 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 137.92 Mbit/s

95th percentile per-packet one-way delay: -2.948 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 67.86 Mbit/s

95th percentile per-packet one-way delay: -2.990 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 43.25 Mbit/s

95th percentile per-packet one-way delay: -2.923 ms

Loss rate: 0.43%

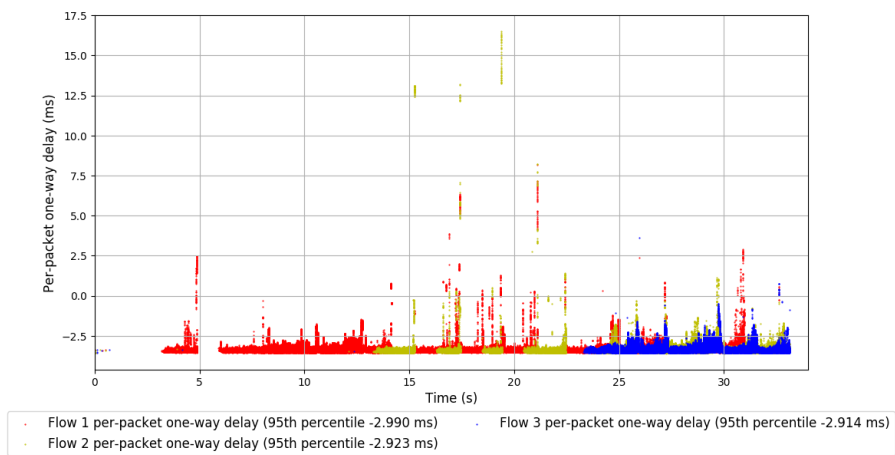
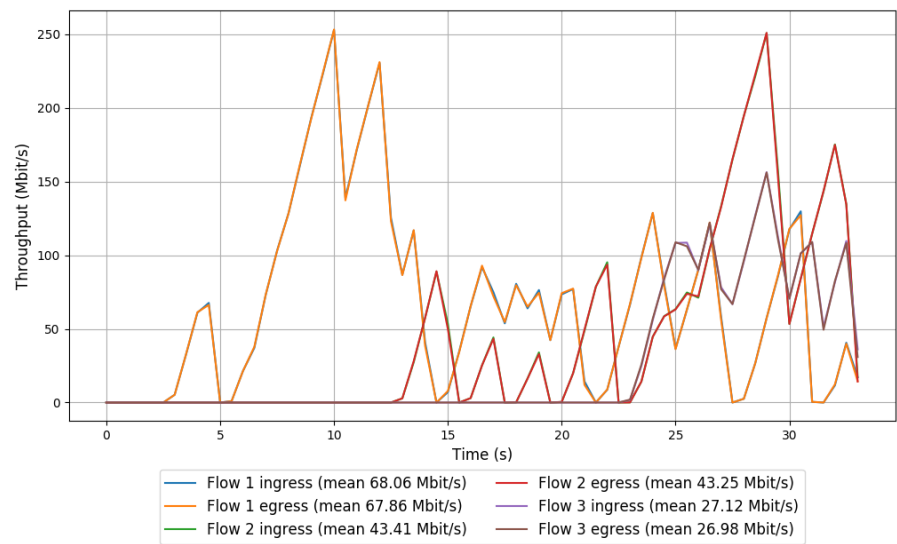
-- Flow 3:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: -2.914 ms

Loss rate: 0.58%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 14:22:06 +0000

End at: Sat, 01 Jul 2017 14:22:36 +0000

Local clock offset: 0.114 ms

Remote clock offset: -4.028 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:36 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.12 Mbit/s

95th percentile per-packet one-way delay: -2.704 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: -2.762 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: -2.685 ms

Loss rate: 0.52%

-- Flow 3:

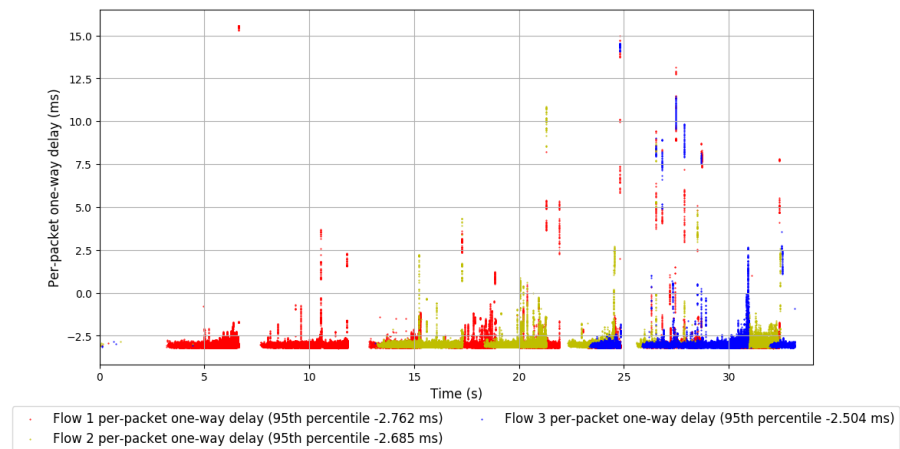
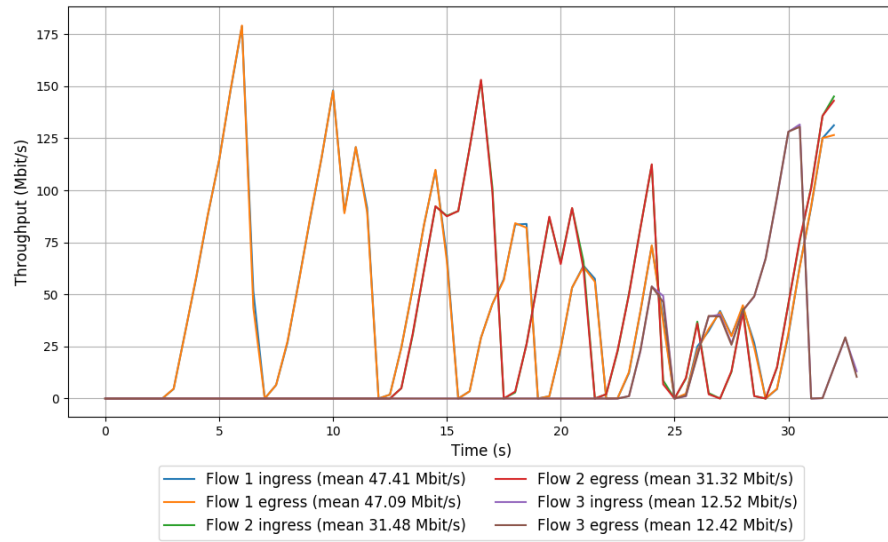
Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: -2.504 ms

Loss rate: 0.85%



## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 14:42:48 +0000

End at: Sat, 01 Jul 2017 14:43:18 +0000

Local clock offset: 0.03 ms

Remote clock offset: -3.595 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 98.71 Mbit/s

95th percentile per-packet one-way delay: -2.113 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: -2.294 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: -1.820 ms

Loss rate: 0.56%

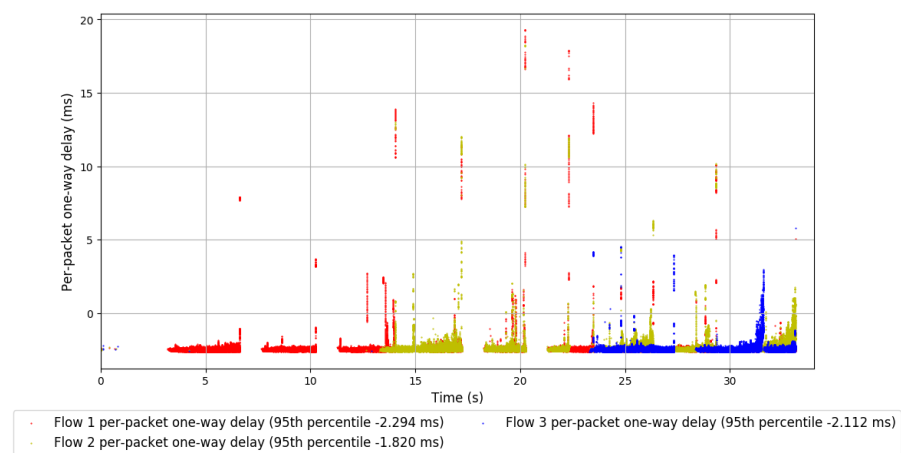
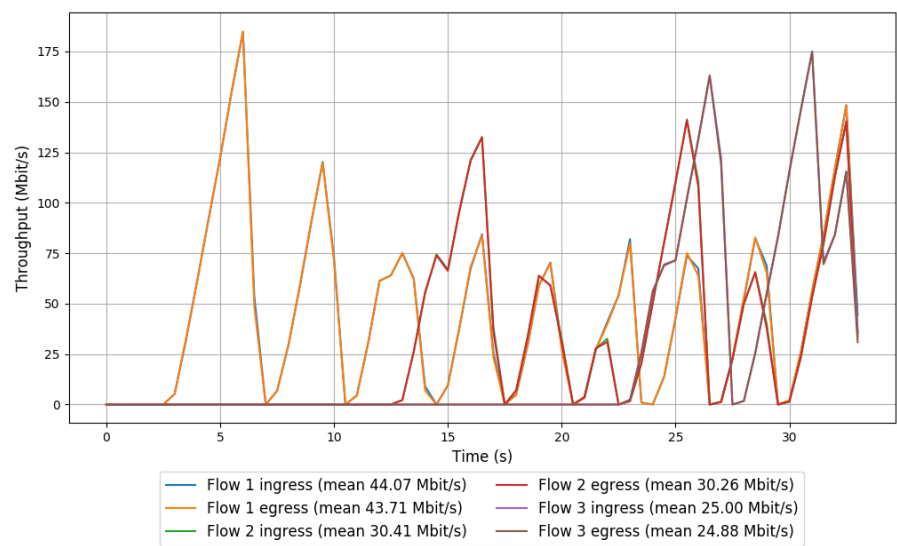
-- Flow 3:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: -2.112 ms

Loss rate: 0.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 15:03:29 +0000

End at: Sat, 01 Jul 2017 15:03:59 +0000

Local clock offset: 0.091 ms

Remote clock offset: -2.856 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:12:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: -1.692 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 44.98 Mbit/s

95th percentile per-packet one-way delay: -1.722 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: -1.645 ms

Loss rate: 0.82%

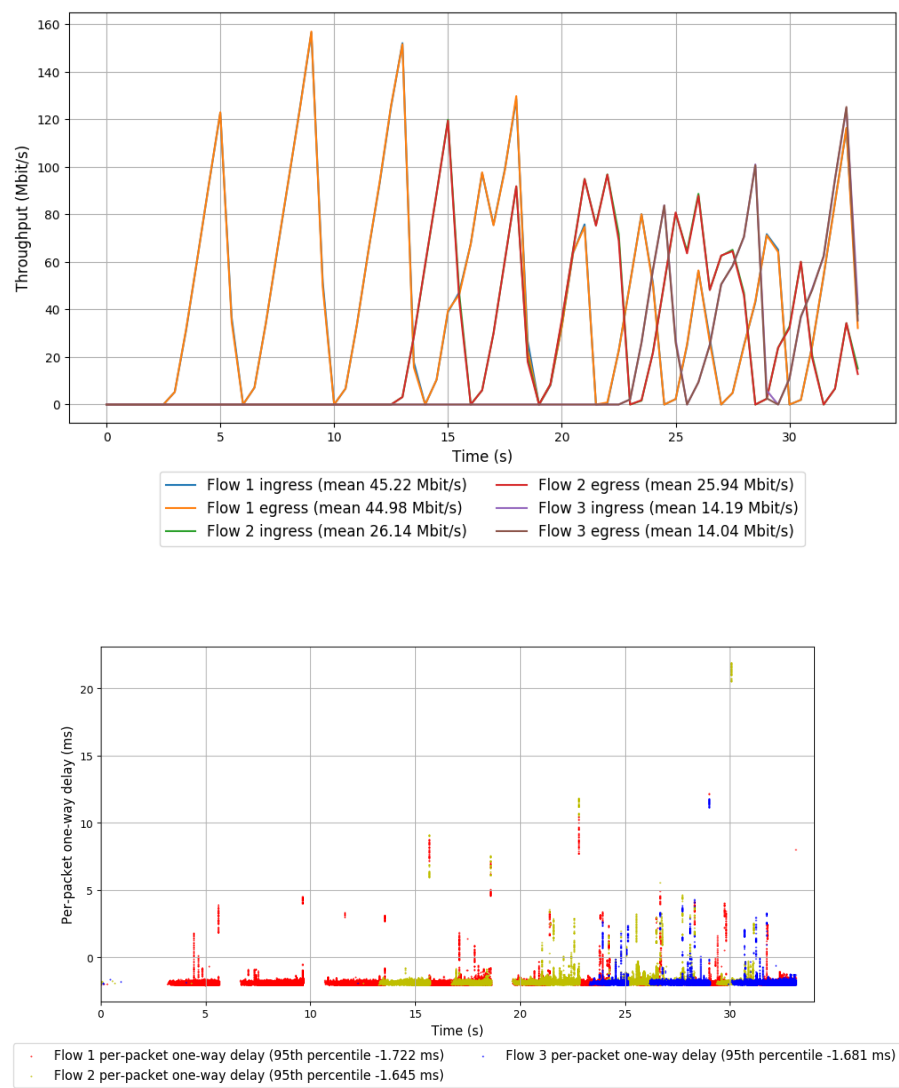
-- Flow 3:

Average throughput: 14.04 Mbit/s

95th percentile per-packet one-way delay: -1.681 ms

Loss rate: 1.13%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 15:24:07 +0000

End at: Sat, 01 Jul 2017 15:24:37 +0000

Local clock offset: 0.207 ms

Remote clock offset: -2.056 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:13:00 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.74 Mbit/s

95th percentile per-packet one-way delay: -0.982 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 61.76 Mbit/s

95th percentile per-packet one-way delay: -1.012 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: -0.951 ms

Loss rate: 0.77%

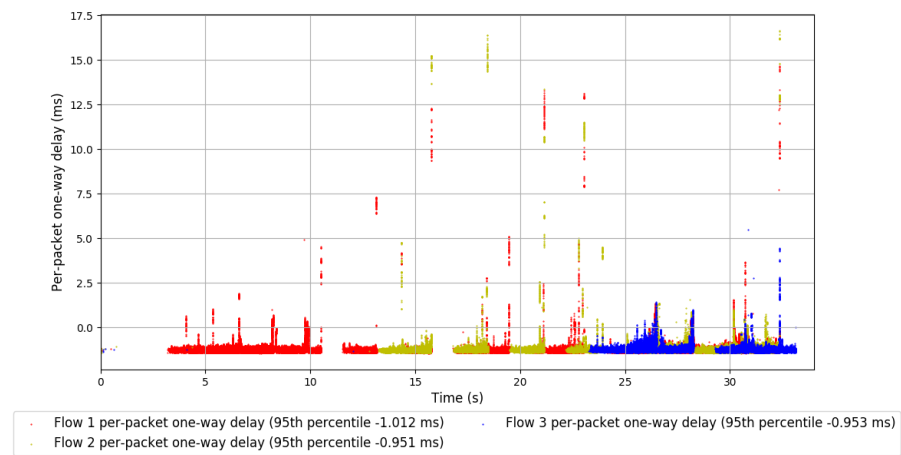
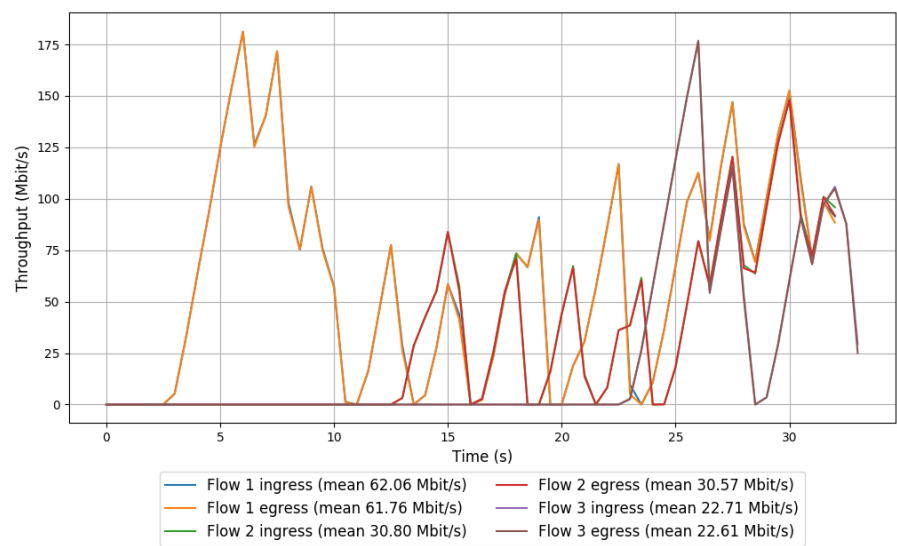
-- Flow 3:

Average throughput: 22.61 Mbit/s

95th percentile per-packet one-way delay: -0.953 ms

Loss rate: 0.47%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 15:44:51 +0000

End at: Sat, 01 Jul 2017 15:45:21 +0000

Local clock offset: 0.336 ms

Remote clock offset: -2.22 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:13:07 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 102.60 Mbit/s

95th percentile per-packet one-way delay: -1.074 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: -1.023 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: -1.127 ms

Loss rate: 0.40%

-- Flow 3:

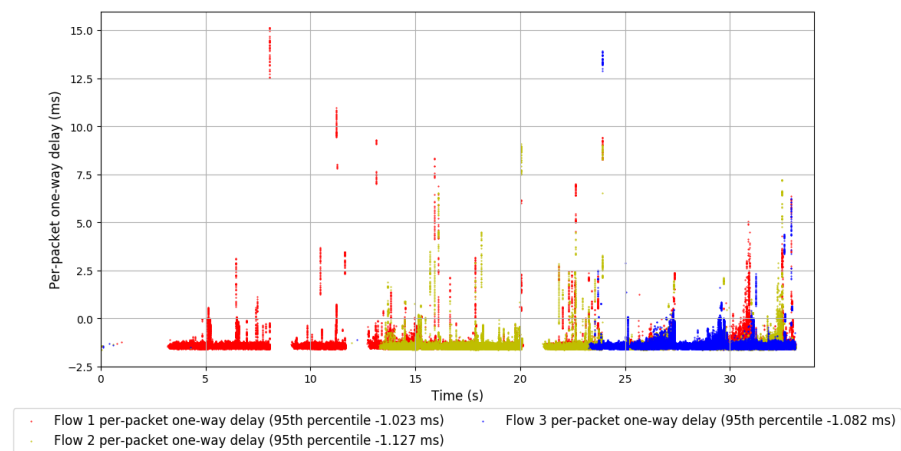
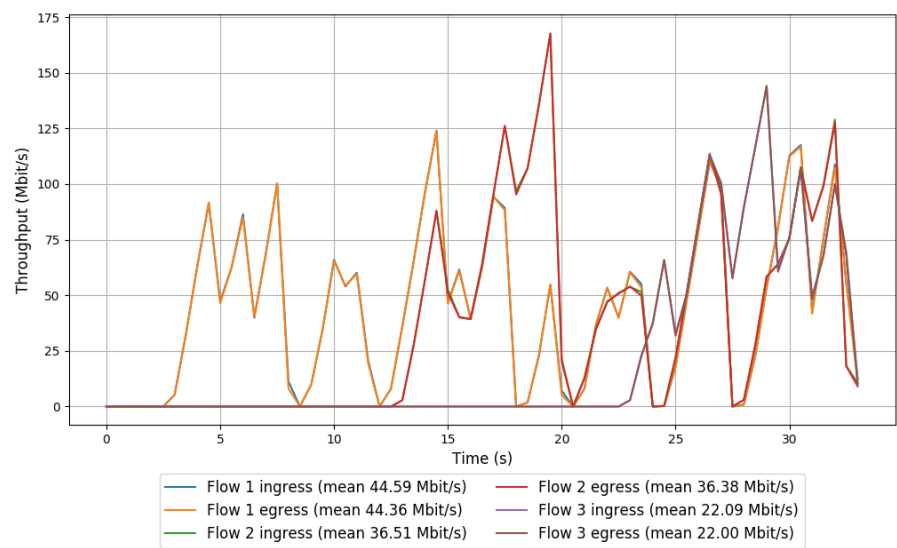
Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: -1.082 ms

Loss rate: 0.46%



Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sat, 01 Jul 2017 12:53:36 +0000

End at: Sat, 01 Jul 2017 12:54:06 +0000

Local clock offset: 0.01 ms

Remote clock offset: -4.41 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:14:12 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 500.25 Mbit/s

95th percentile per-packet one-way delay: -1.167 ms

Loss rate: 3.90%

-- Flow 1:

Average throughput: 441.01 Mbit/s

95th percentile per-packet one-way delay: -1.155 ms

Loss rate: 4.29%

-- Flow 2:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: -1.451 ms

Loss rate: 0.19%

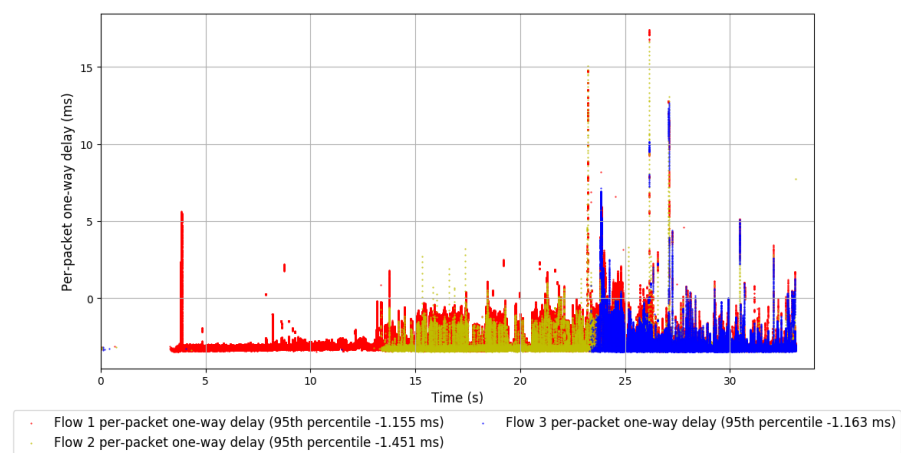
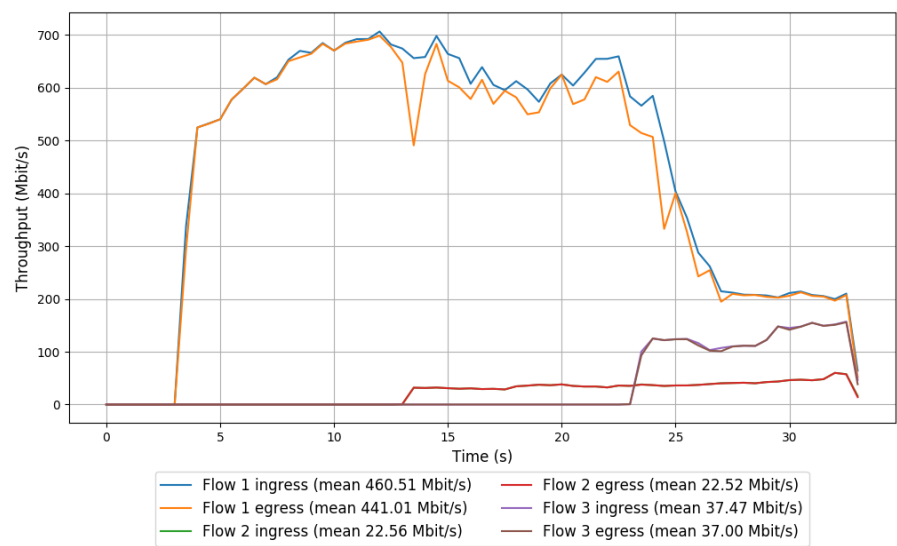
-- Flow 3:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: -1.163 ms

Loss rate: 1.33%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Sat, 01 Jul 2017 13:14:23 +0000

End at: Sat, 01 Jul 2017 13:14:53 +0000

Local clock offset: 0.128 ms

Remote clock offset: -4.527 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:14:24 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 539.24 Mbit/s

95th percentile per-packet one-way delay: -1.619 ms

Loss rate: 5.25%

-- Flow 1:

Average throughput: 398.82 Mbit/s

95th percentile per-packet one-way delay: -1.548 ms

Loss rate: 6.75%

-- Flow 2:

Average throughput: 102.06 Mbit/s

95th percentile per-packet one-way delay: -1.746 ms

Loss rate: 0.77%

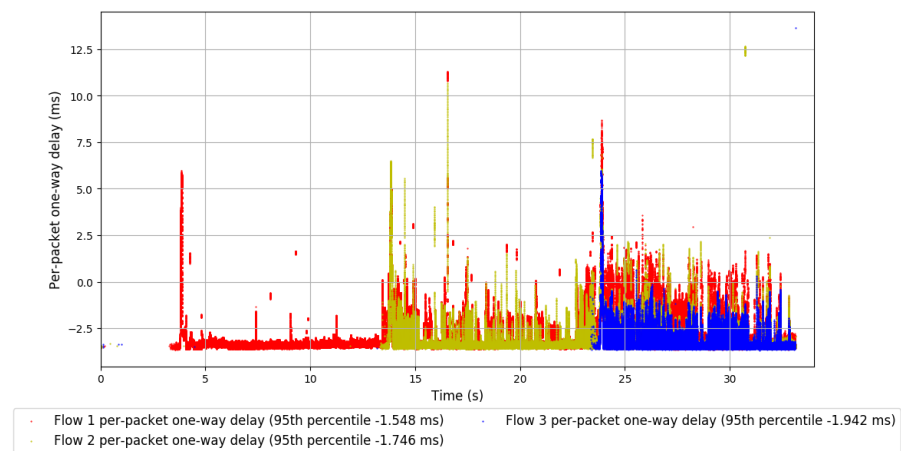
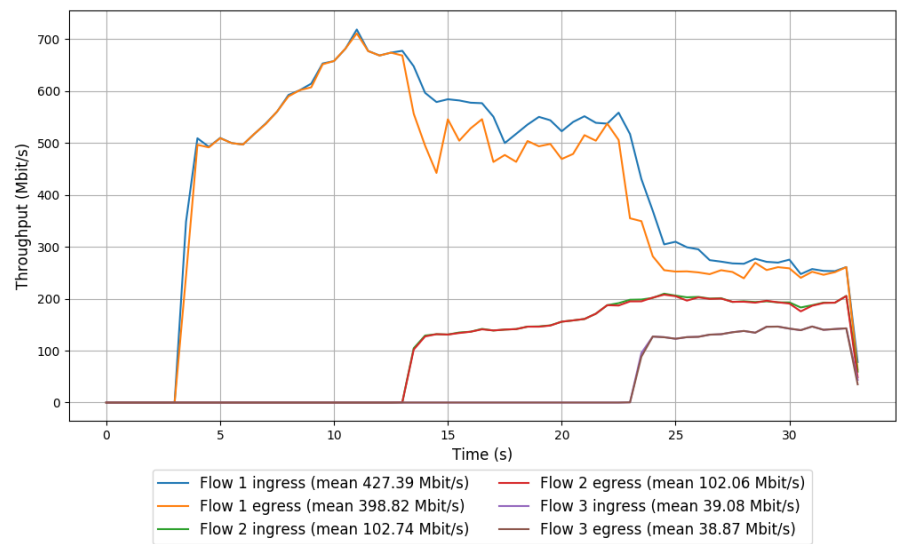
-- Flow 3:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: -1.942 ms

Loss rate: 0.60%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Sat, 01 Jul 2017 13:35:13 +0000

End at: Sat, 01 Jul 2017 13:35:43 +0000

Local clock offset: 0.074 ms

Remote clock offset: -4.833 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:15:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 541.13 Mbit/s

95th percentile per-packet one-way delay: 3.487 ms

Loss rate: 10.55%

-- Flow 1:

Average throughput: 390.41 Mbit/s

95th percentile per-packet one-way delay: 3.629 ms

Loss rate: 12.09%

-- Flow 2:

Average throughput: 146.09 Mbit/s

95th percentile per-packet one-way delay: 3.144 ms

Loss rate: 6.50%

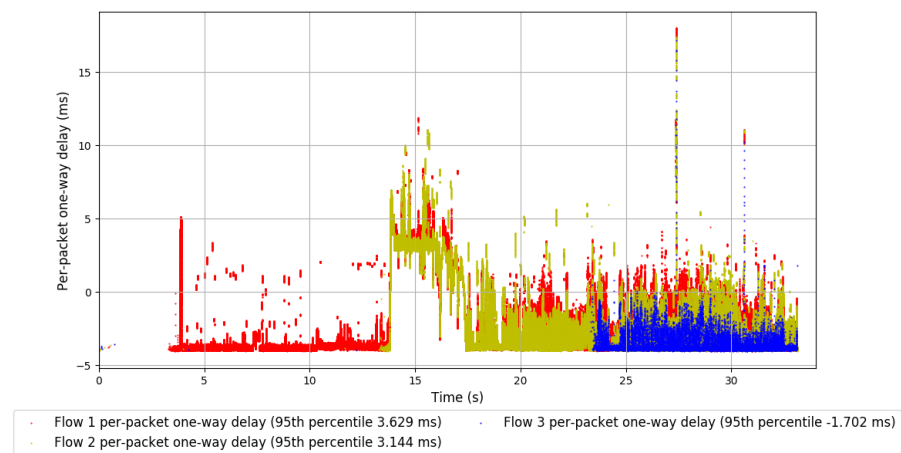
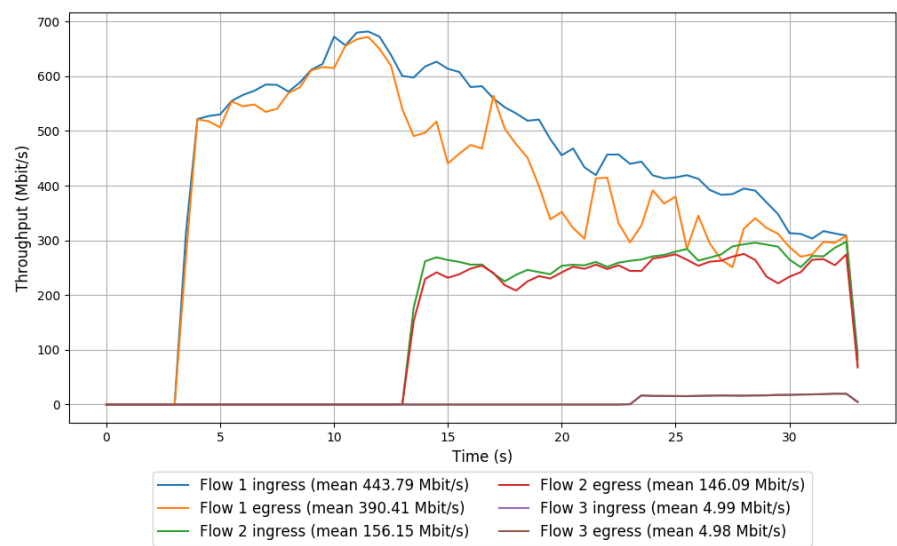
-- Flow 3:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: -1.702 ms

Loss rate: 0.24%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Sat, 01 Jul 2017 13:55:59 +0000

End at: Sat, 01 Jul 2017 13:56:29 +0000

Local clock offset: 0.108 ms

Remote clock offset: -4.518 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:15:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 510.48 Mbit/s

95th percentile per-packet one-way delay: 1.711 ms

Loss rate: 6.80%

-- Flow 1:

Average throughput: 398.18 Mbit/s

95th percentile per-packet one-way delay: 0.023 ms

Loss rate: 7.12%

-- Flow 2:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 1.875 ms

Loss rate: 0.45%

-- Flow 3:

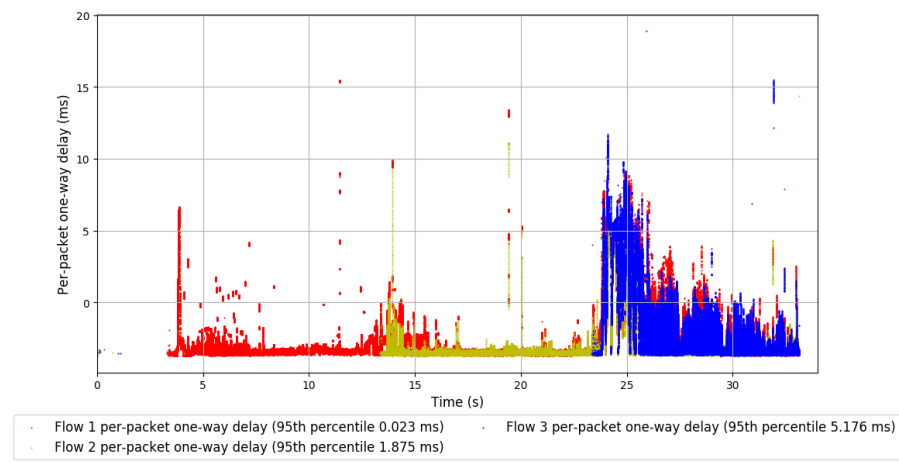
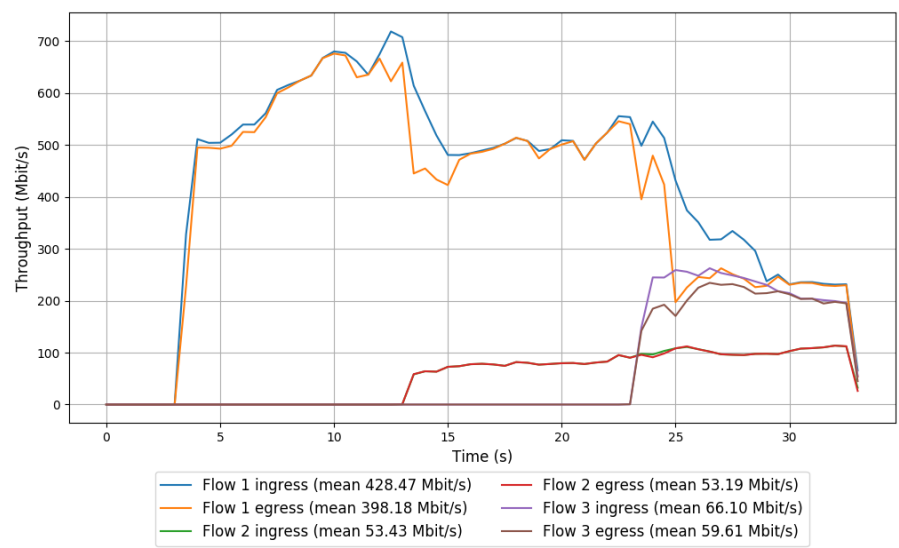
Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 5.176 ms

Loss rate: 9.88%



Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Sat, 01 Jul 2017 14:16:43 +0000

End at: Sat, 01 Jul 2017 14:17:13 +0000

Local clock offset: 0.1 ms

Remote clock offset: -4.004 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:16:26 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 443.87 Mbit/s

95th percentile per-packet one-way delay: -1.026 ms

Loss rate: 6.91%

-- Flow 1:

Average throughput: 264.50 Mbit/s

95th percentile per-packet one-way delay: -1.273 ms

Loss rate: 7.70%

-- Flow 2:

Average throughput: 150.87 Mbit/s

95th percentile per-packet one-way delay: -0.564 ms

Loss rate: 6.59%

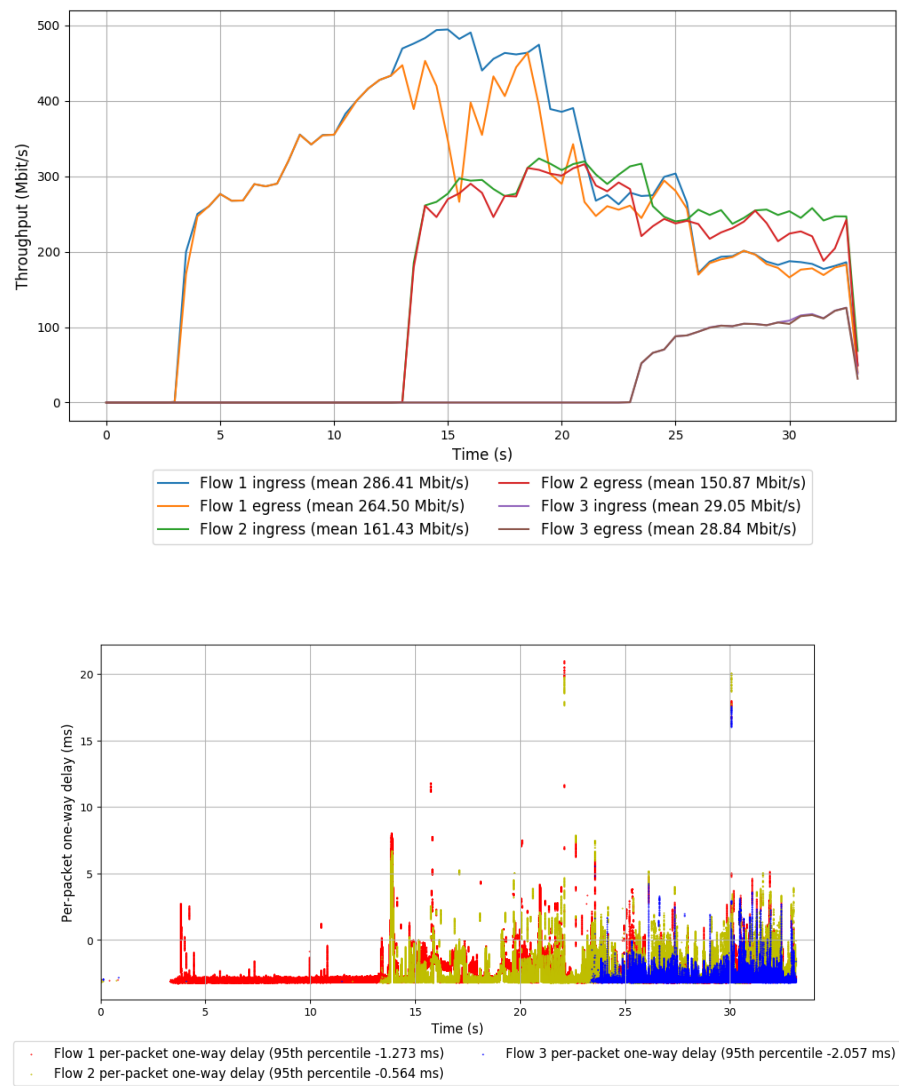
-- Flow 3:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: -2.057 ms

Loss rate: 0.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Sat, 01 Jul 2017 14:37:22 +0000

End at: Sat, 01 Jul 2017 14:37:52 +0000

Local clock offset: 0.182 ms

Remote clock offset: -3.783 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:16:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 487.68 Mbit/s

95th percentile per-packet one-way delay: -0.509 ms

Loss rate: 8.95%

-- Flow 1:

Average throughput: 355.95 Mbit/s

95th percentile per-packet one-way delay: -0.633 ms

Loss rate: 11.20%

-- Flow 2:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: -1.070 ms

Loss rate: 0.95%

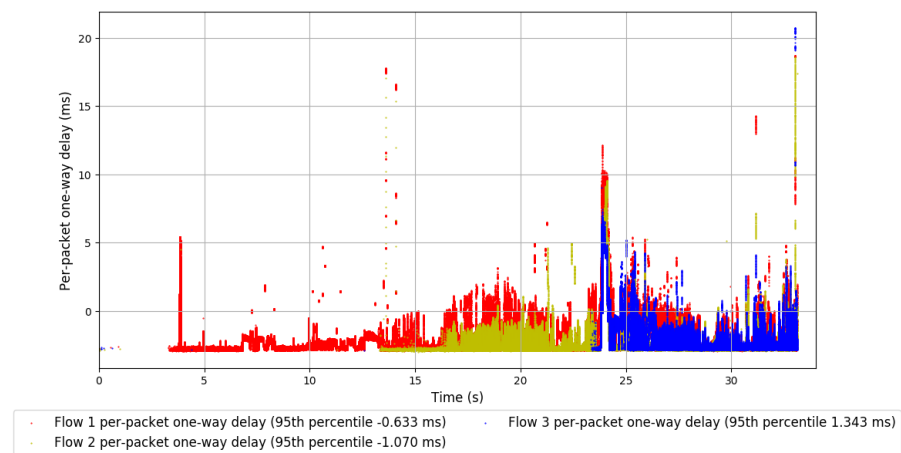
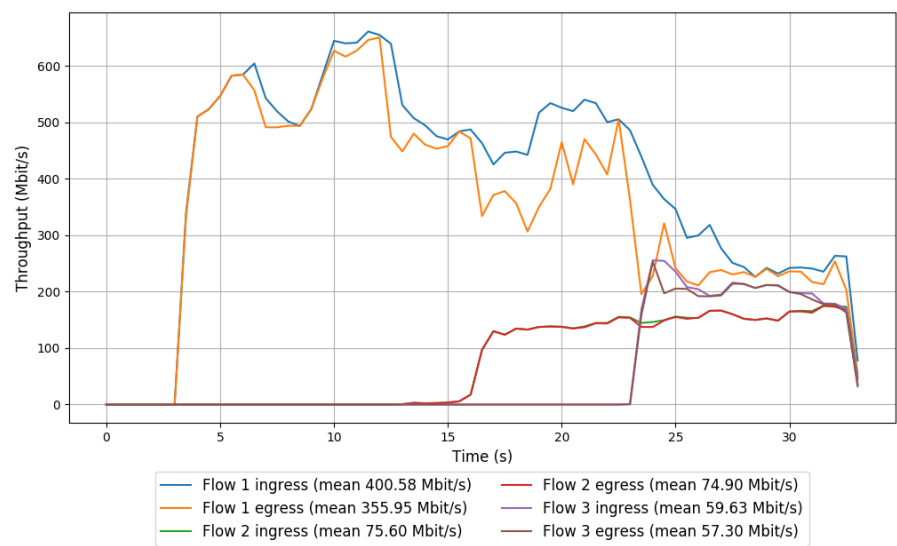
-- Flow 3:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 3.95%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Sat, 01 Jul 2017 14:58:04 +0000

End at: Sat, 01 Jul 2017 14:58:34 +0000

Local clock offset: 0.142 ms

Remote clock offset: -3.087 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:17:39 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 482.66 Mbit/s

95th percentile per-packet one-way delay: 0.535 ms

Loss rate: 12.63%

-- Flow 1:

Average throughput: 370.96 Mbit/s

95th percentile per-packet one-way delay: 0.398 ms

Loss rate: 15.15%

-- Flow 2:

Average throughput: 76.64 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 3.95%

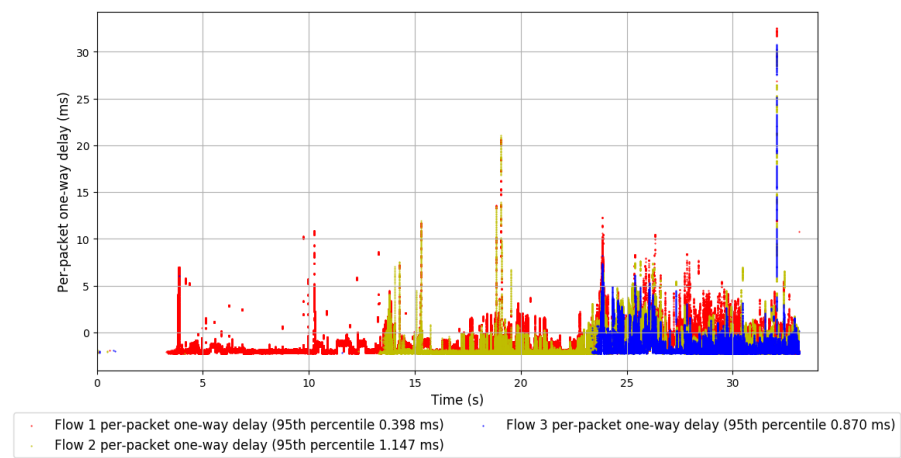
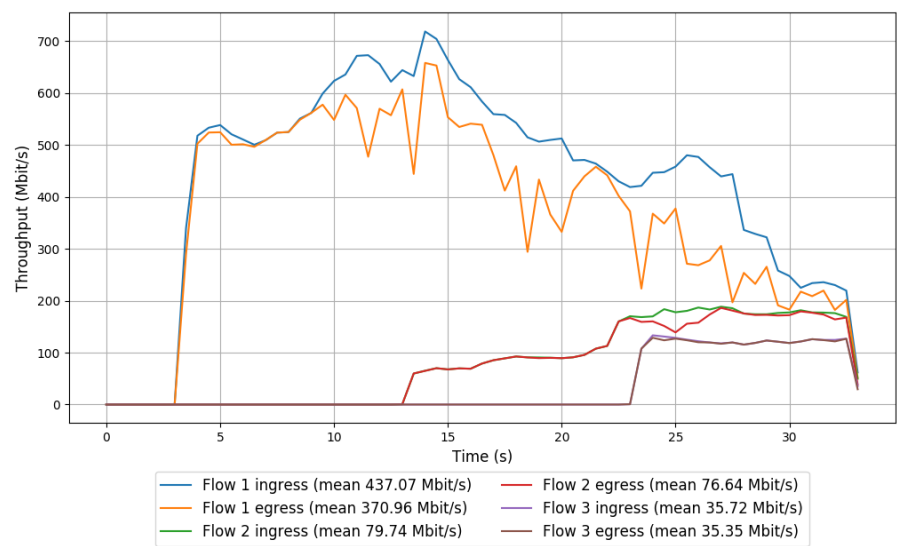
-- Flow 3:

Average throughput: 35.35 Mbit/s

95th percentile per-packet one-way delay: 0.870 ms

Loss rate: 1.11%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Sat, 01 Jul 2017 15:18:42 +0000

End at: Sat, 01 Jul 2017 15:19:12 +0000

Local clock offset: 0.182 ms

Remote clock offset: -2.152 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:18:06 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 492.78 Mbit/s

95th percentile per-packet one-way delay: 0.882 ms

Loss rate: 8.21%

-- Flow 1:

Average throughput: 390.44 Mbit/s

95th percentile per-packet one-way delay: 0.858 ms

Loss rate: 9.91%

-- Flow 2:

Average throughput: 99.56 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 1.13%

-- Flow 3:

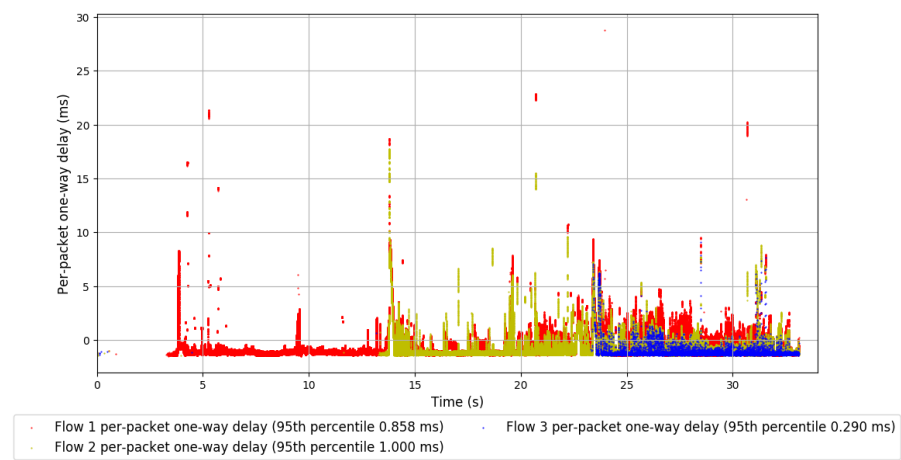
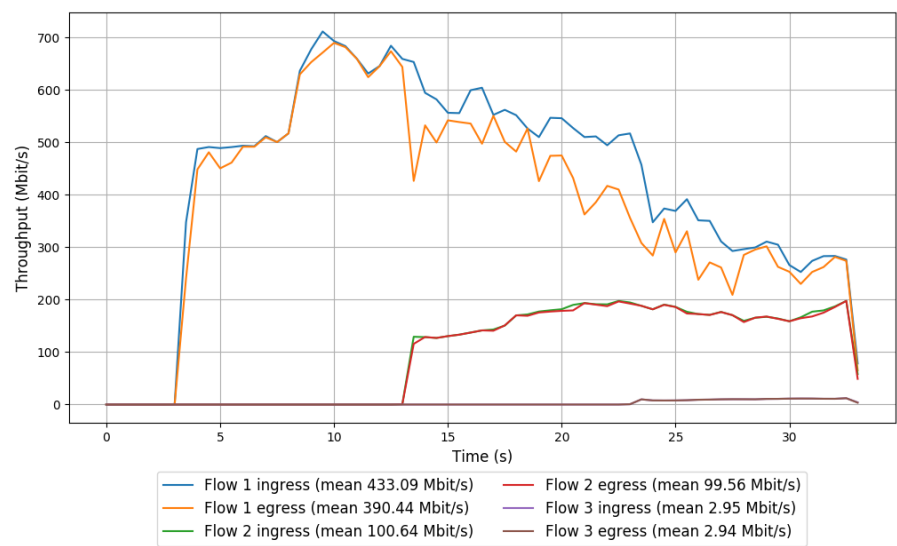
Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 0.290 ms

Loss rate: 0.33%



Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Sat, 01 Jul 2017 15:39:27 +0000

End at: Sat, 01 Jul 2017 15:39:57 +0000

Local clock offset: 0.387 ms

Remote clock offset: -2.093 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:18:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 476.70 Mbit/s

95th percentile per-packet one-way delay: 1.584 ms

Loss rate: 6.22%

-- Flow 1:

Average throughput: 293.24 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 8.19%

-- Flow 2:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 1.795 ms

Loss rate: 3.34%

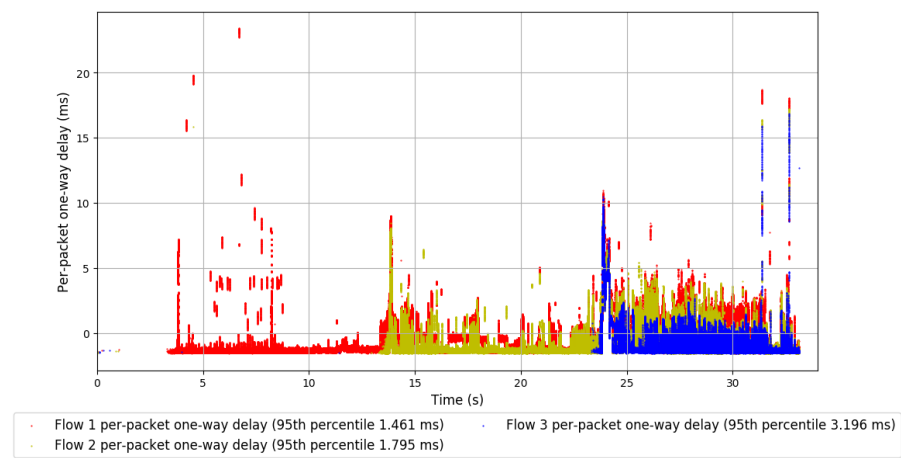
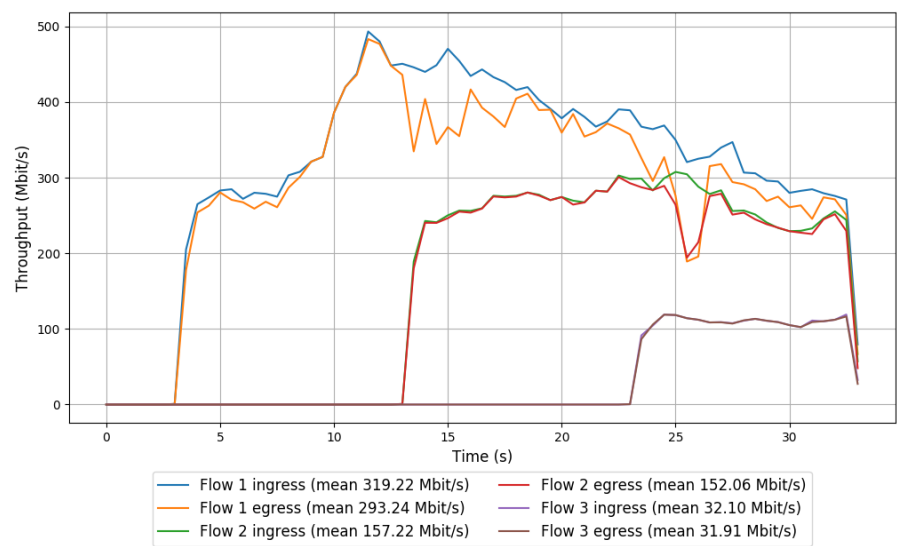
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 0.62%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Sat, 01 Jul 2017 16:00:16 +0000

End at: Sat, 01 Jul 2017 16:00:46 +0000

Local clock offset: 0.354 ms

Remote clock offset: -2.188 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:26 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 502.14 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 7.87%

-- Flow 1:

Average throughput: 348.87 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 9.14%

-- Flow 2:

Average throughput: 114.40 Mbit/s

95th percentile per-packet one-way delay: 1.589 ms

Loss rate: 5.36%

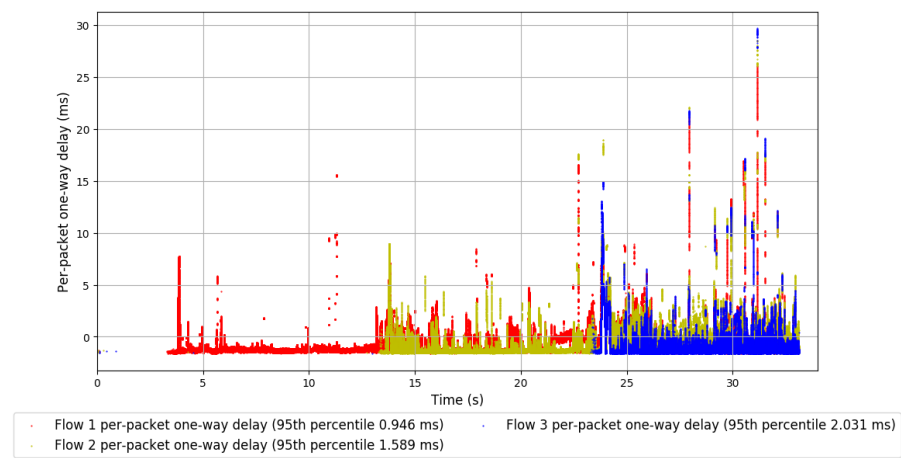
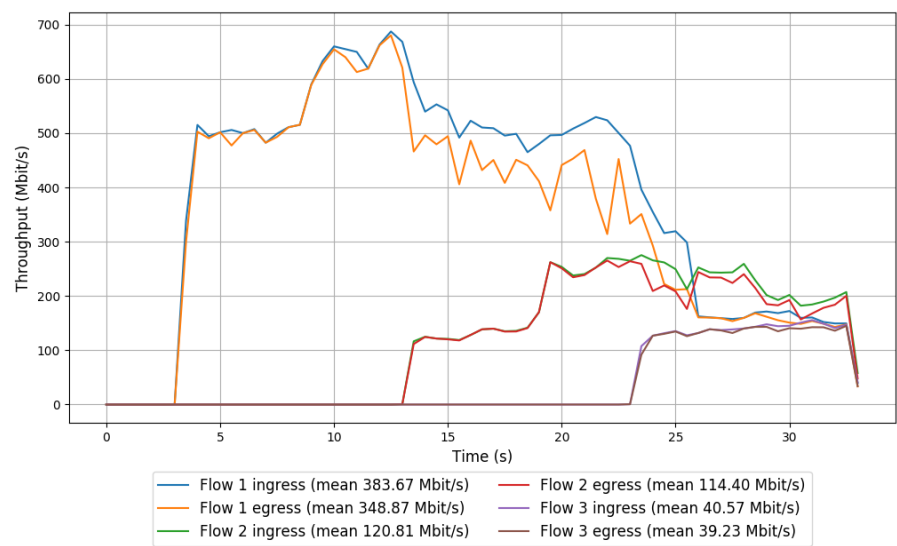
-- Flow 3:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 2.031 ms

Loss rate: 3.37%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 12:43:25 +0000

End at: Sat, 01 Jul 2017 12:43:55 +0000

Local clock offset: -0.035 ms

Remote clock offset: -4.622 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:26 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: -3.403 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: -3.400 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: -3.411 ms

Loss rate: 0.00%

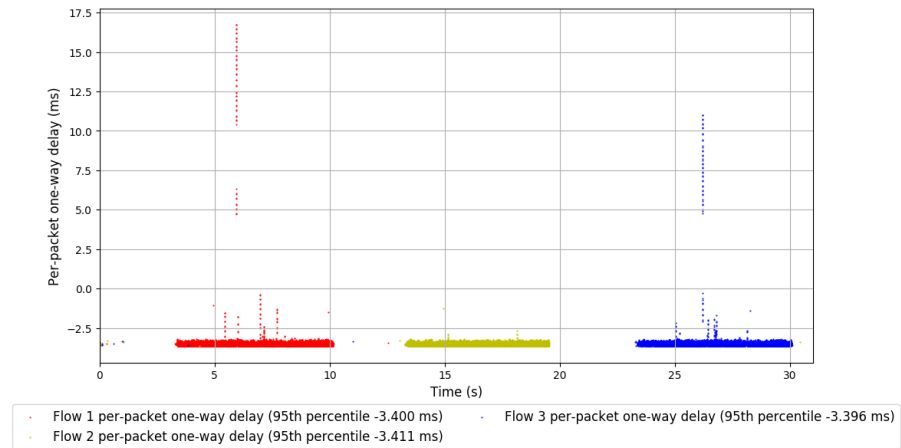
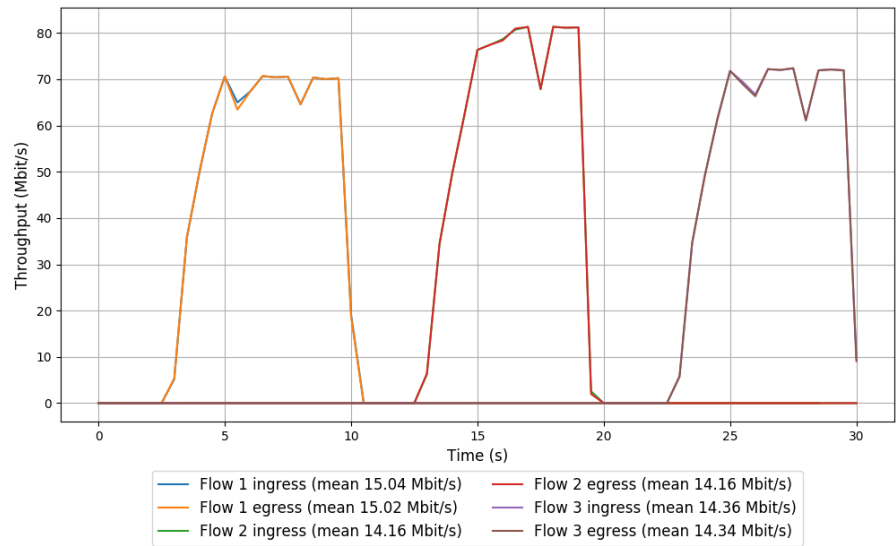
-- Flow 3:

Average throughput: 14.34 Mbit/s

95th percentile per-packet one-way delay: -3.396 ms

Loss rate: 0.10%

# Run 1: Report of QUIC Cubic (toy) — Data Link



Run 2: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 13:04:18 +0000

End at: Sat, 01 Jul 2017 13:04:48 +0000

Local clock offset: 0.015 ms

Remote clock offset: -4.317 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:26 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: -3.181 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: -3.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: -3.192 ms

Loss rate: 0.00%

-- Flow 3:

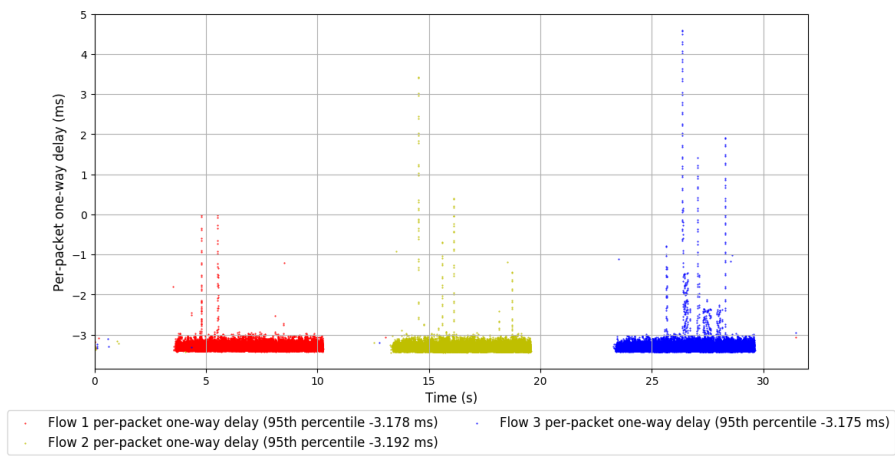
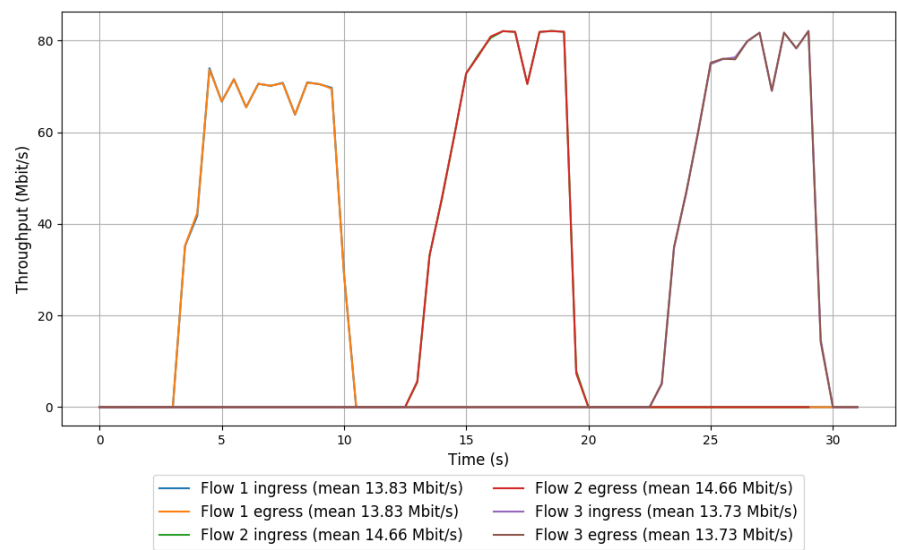
Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: -3.175 ms

Loss rate: 0.04%



Run 2: Report of QUIC Cubic (toy) — Data Link



Run 3: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 13:25:05 +0000

End at: Sat, 01 Jul 2017 13:25:35 +0000

Local clock offset: 0.041 ms

Remote clock offset: -4.666 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:26 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: -3.603 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: -3.587 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: -3.607 ms

Loss rate: 0.07%

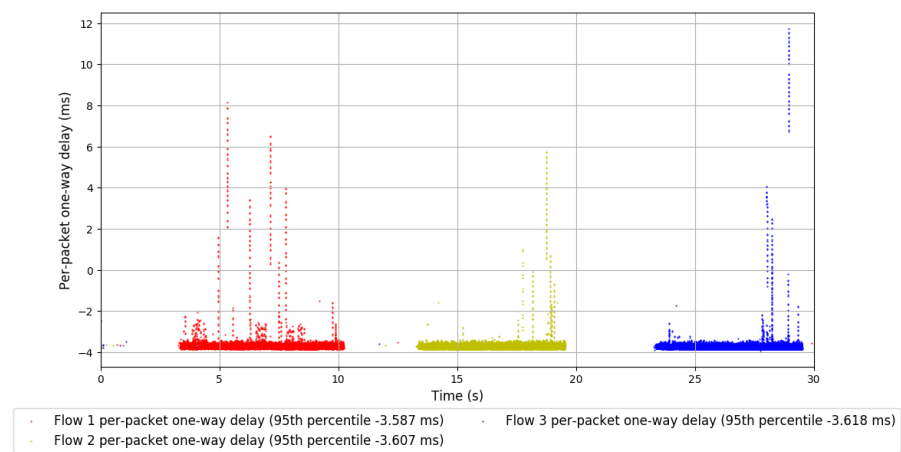
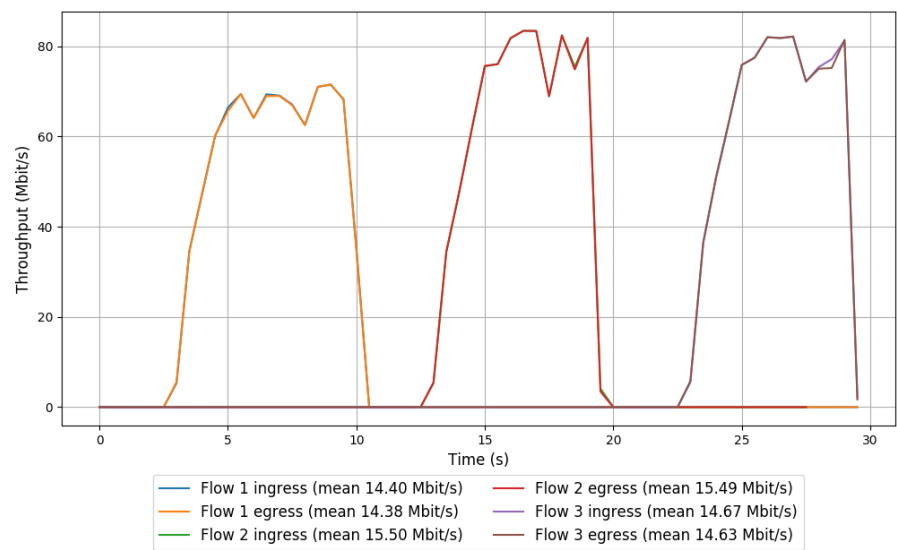
-- Flow 3:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: -3.618 ms

Loss rate: 0.24%

Run 3: Report of QUIC Cubic (toy) — Data Link



Run 4: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 13:45:56 +0000

End at: Sat, 01 Jul 2017 13:46:26 +0000

Local clock offset: 0.078 ms

Remote clock offset: -4.835 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: -3.723 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: -3.725 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 14.45 Mbit/s

95th percentile per-packet one-way delay: -3.720 ms

Loss rate: 0.19%

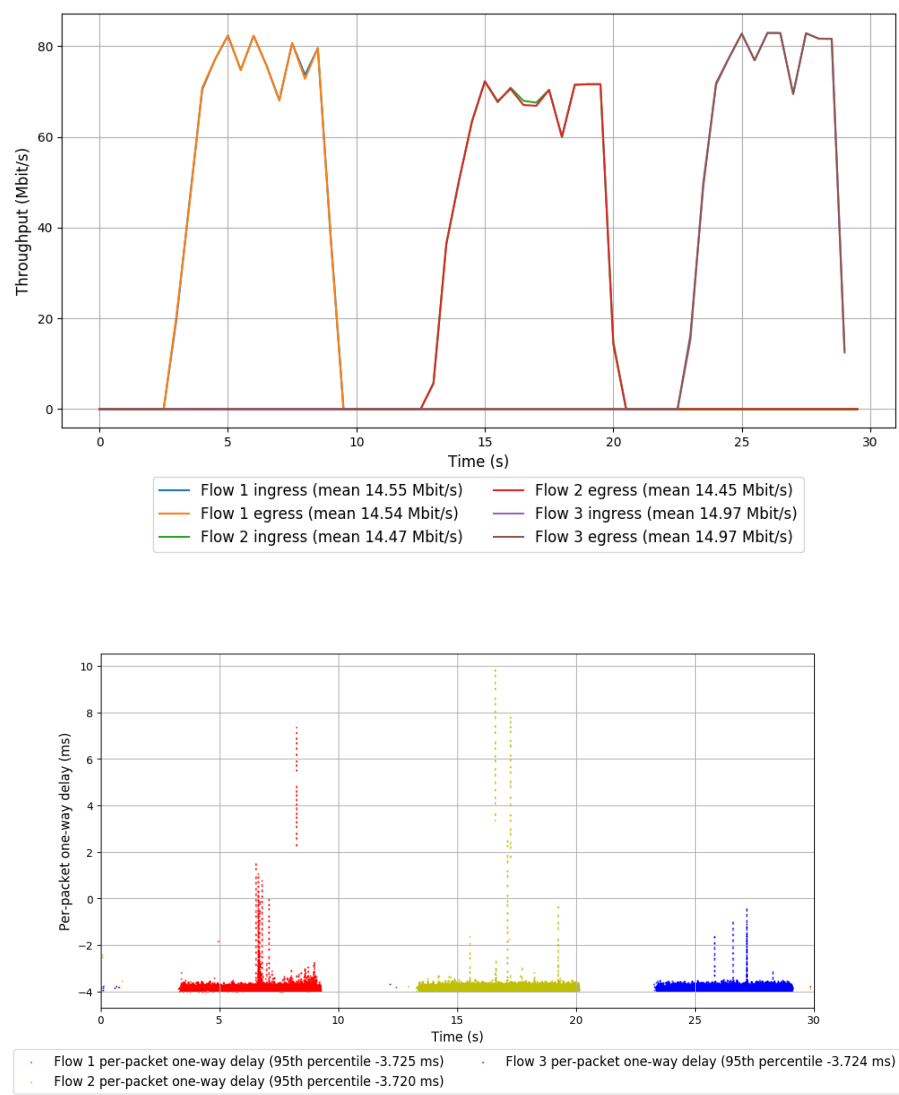
-- Flow 3:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: -3.724 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic (toy) — Data Link



Run 5: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 14:06:40 +0000

End at: Sat, 01 Jul 2017 14:07:10 +0000

Local clock offset: 0.086 ms

Remote clock offset: -4.306 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:34 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: -3.200 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: -3.207 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 17.11 Mbit/s

95th percentile per-packet one-way delay: -3.192 ms

Loss rate: 0.03%

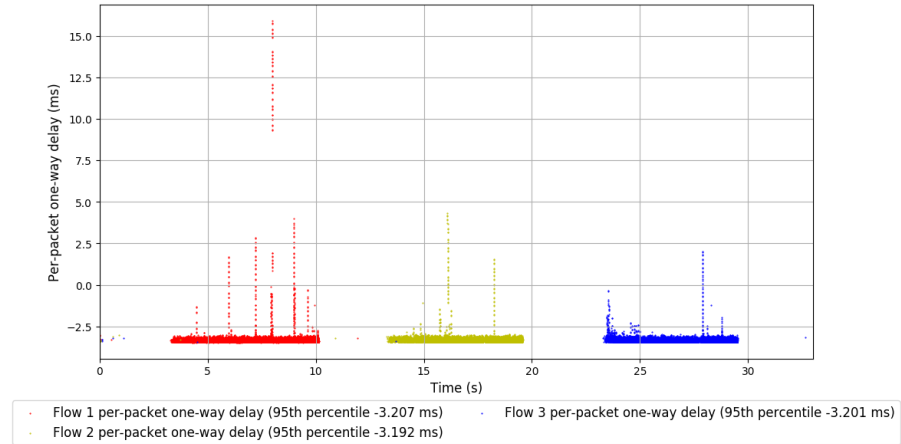
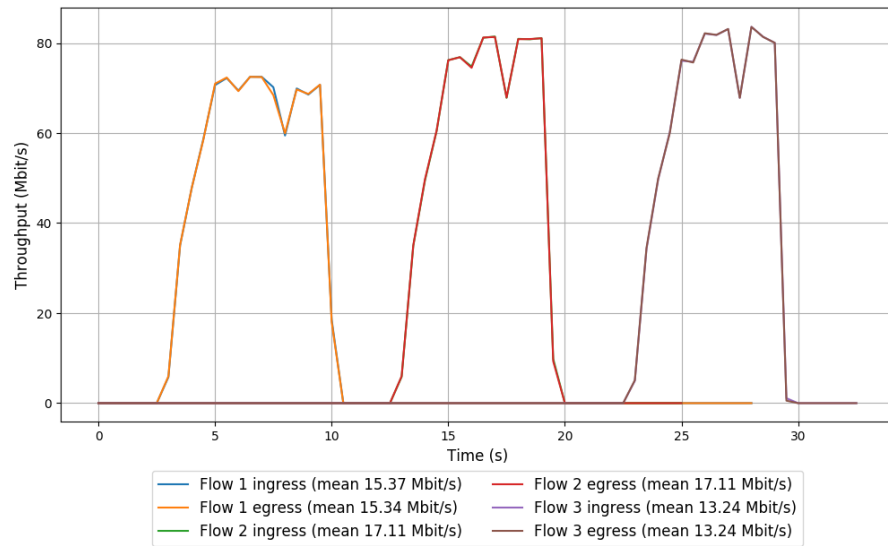
-- Flow 3:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: -3.201 ms

Loss rate: 0.00%

## Run 5: Report of QUIC Cubic (toy) — Data Link



Run 6: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 14:27:18 +0000

End at: Sat, 01 Jul 2017 14:27:48 +0000

Local clock offset: 0.212 ms

Remote clock offset: -4.012 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:36 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: -2.927 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 14.21 Mbit/s

95th percentile per-packet one-way delay: -2.933 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 14.31 Mbit/s

95th percentile per-packet one-way delay: -2.933 ms

Loss rate: 0.07%

-- Flow 3:

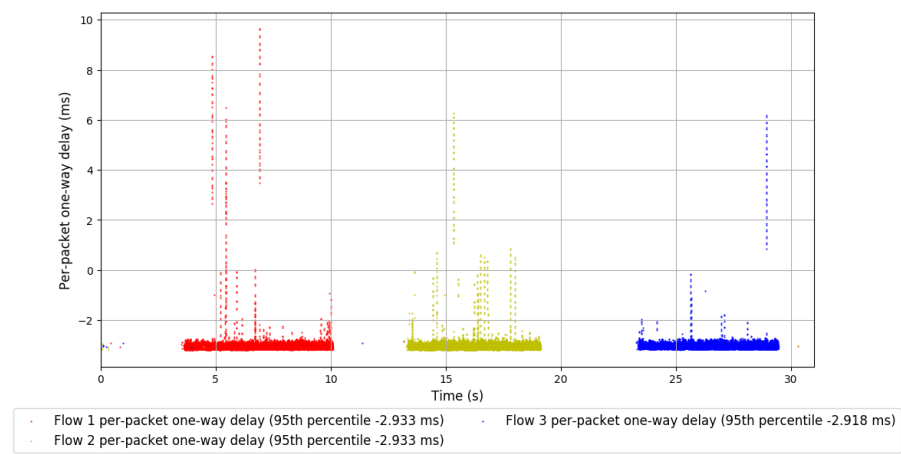
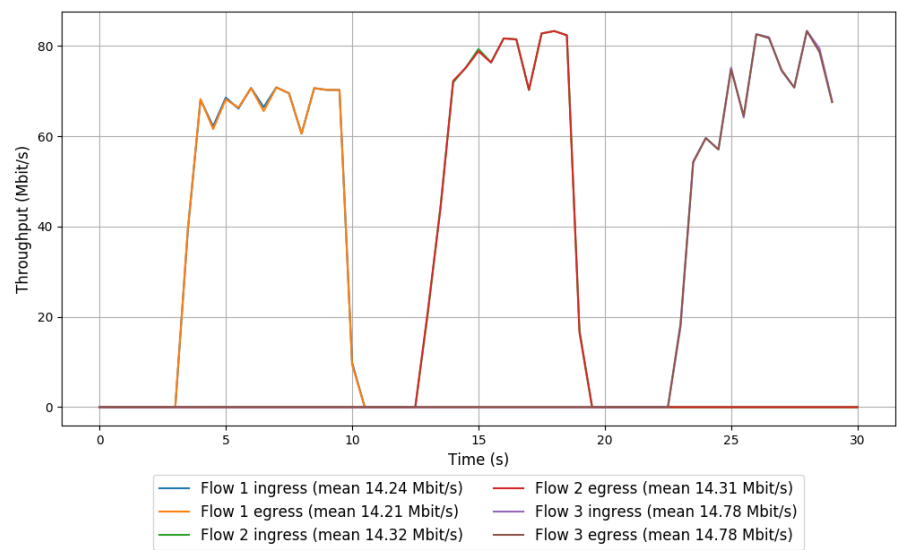
Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: -2.918 ms

Loss rate: 0.06%



Run 6: Report of QUIC Cubic (toy) — Data Link



Run 7: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 14:47:59 +0000

End at: Sat, 01 Jul 2017 14:48:29 +0000

Local clock offset: 0.116 ms

Remote clock offset: -3.487 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: -2.293 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: -2.302 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: -2.288 ms

Loss rate: 0.09%

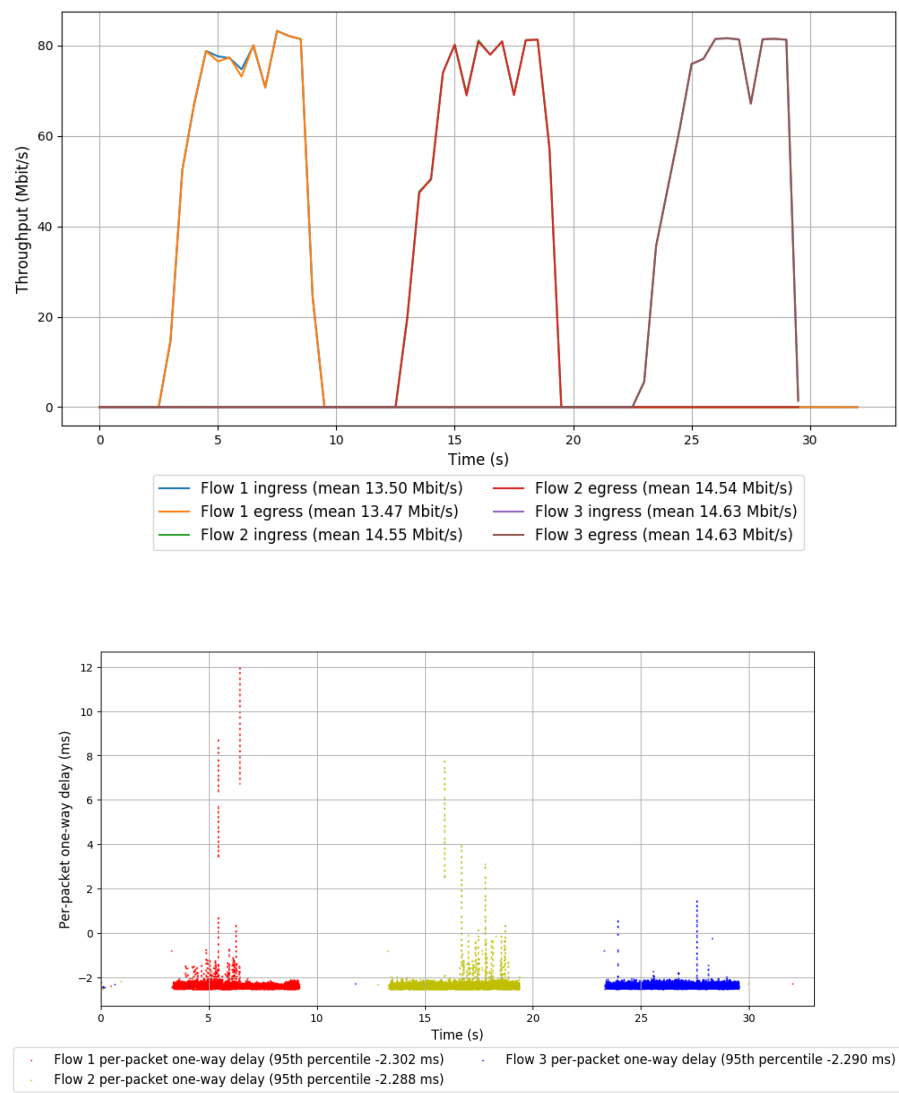
-- Flow 3:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: -2.290 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic (toy) — Data Link



Run 8: Statistics of QUIC Cubic (toy)

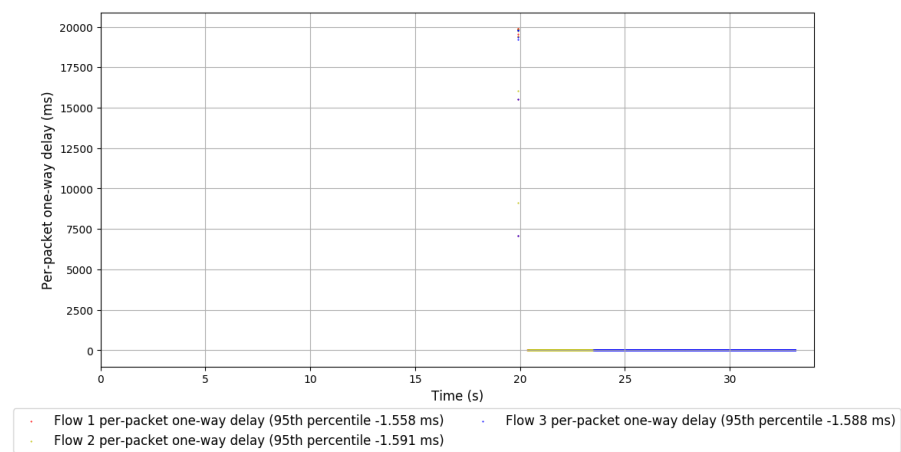
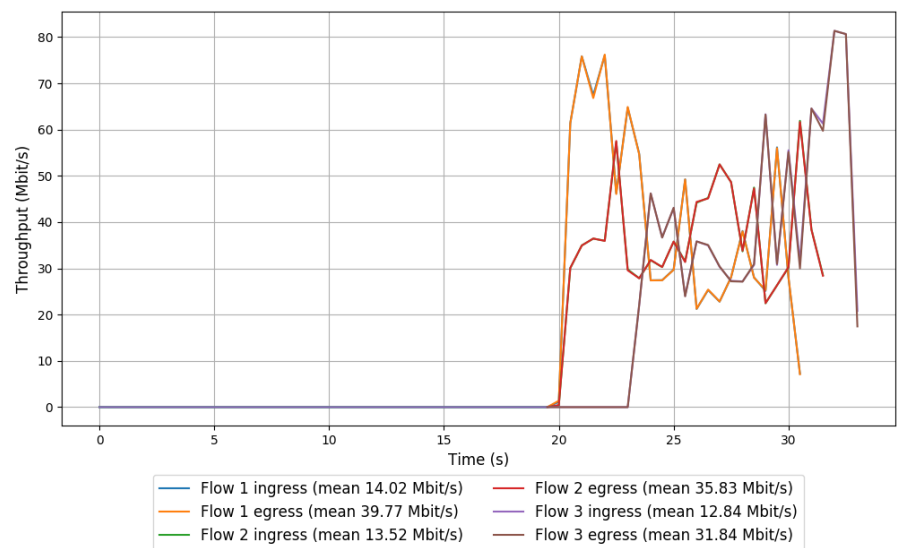
Start at: Sat, 01 Jul 2017 15:08:41 +0000

End at: Sat, 01 Jul 2017 15:09:11 +0000

Local clock offset: 0.139 ms

Remote clock offset: -2.607 ms

Run 8: Report of QUIC Cubic (toy) — Data Link



Run 9: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 15:29:23 +0000

End at: Sat, 01 Jul 2017 15:29:53 +0000

Local clock offset: 0.313 ms

Remote clock offset: -2.192 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:47 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.34 Mbit/s

95th percentile per-packet one-way delay: -1.229 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 16.26 Mbit/s

95th percentile per-packet one-way delay: -1.222 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: -1.243 ms

Loss rate: 0.00%

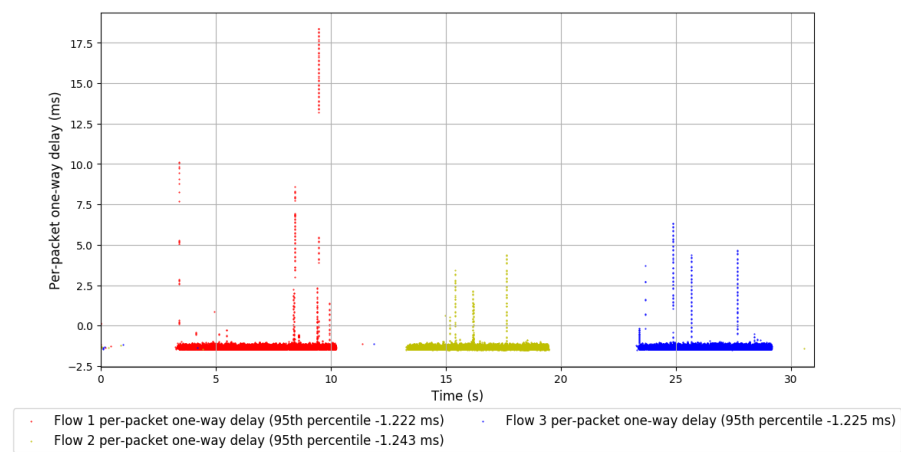
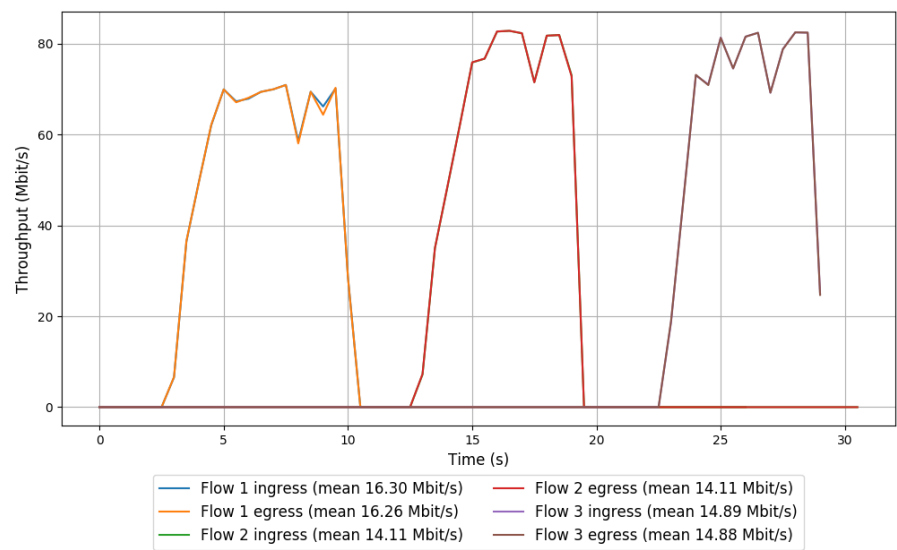
-- Flow 3:

Average throughput: 14.88 Mbit/s

95th percentile per-packet one-way delay: -1.225 ms

Loss rate: 0.03%

Run 9: Report of QUIC Cubic (toy) — Data Link



Run 10: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 15:50:08 +0000

End at: Sat, 01 Jul 2017 15:50:38 +0000

Local clock offset: 0.435 ms

Remote clock offset: -2.241 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:19:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: -1.367 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 14.48 Mbit/s

95th percentile per-packet one-way delay: -1.376 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: -1.348 ms

Loss rate: 0.00%

-- Flow 3:

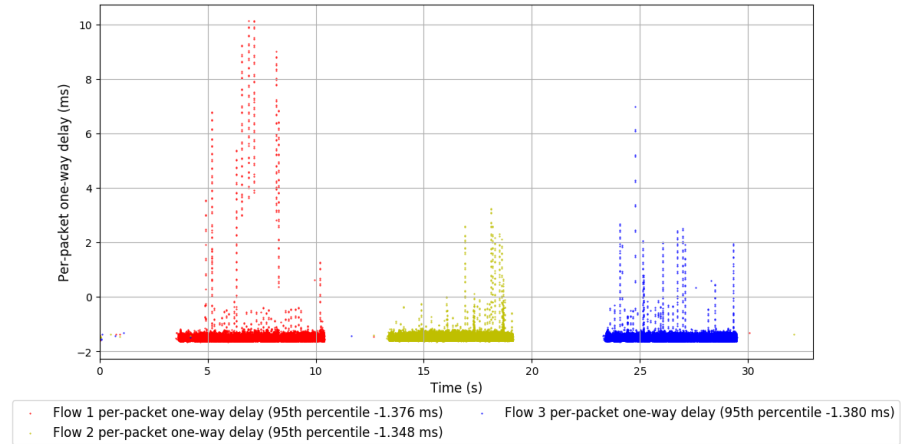
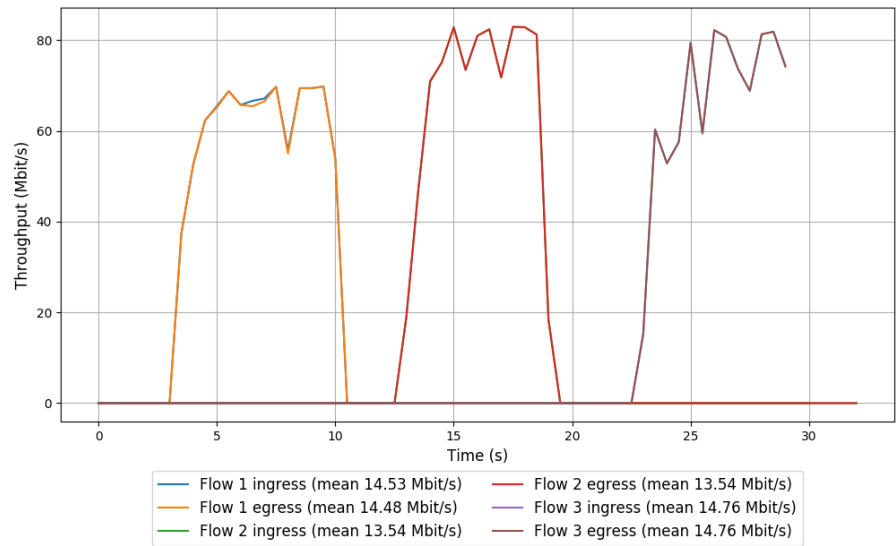
Average throughput: 14.76 Mbit/s

95th percentile per-packet one-way delay: -1.380 ms

Loss rate: 0.00%



# Run 10: Report of QUIC Cubic (toy) — Data Link



Run 1: Statistics of Saturator

Start at: Sat, 01 Jul 2017 12:55:06 +0000

End at: Sat, 01 Jul 2017 12:55:36 +0000

Local clock offset: 0.003 ms

Remote clock offset: -4.358 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:20:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.61 Mbit/s

95th percentile per-packet one-way delay: -2.932 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 107.08 Mbit/s

95th percentile per-packet one-way delay: -2.967 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: -2.875 ms

Loss rate: 0.37%

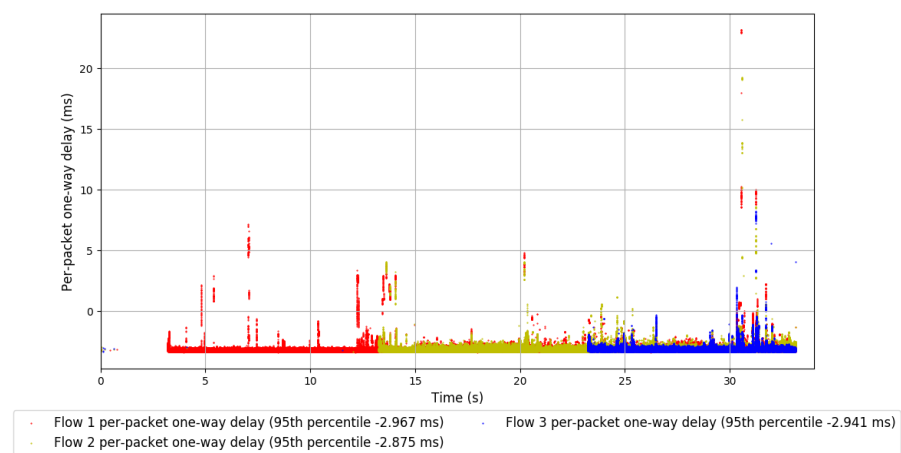
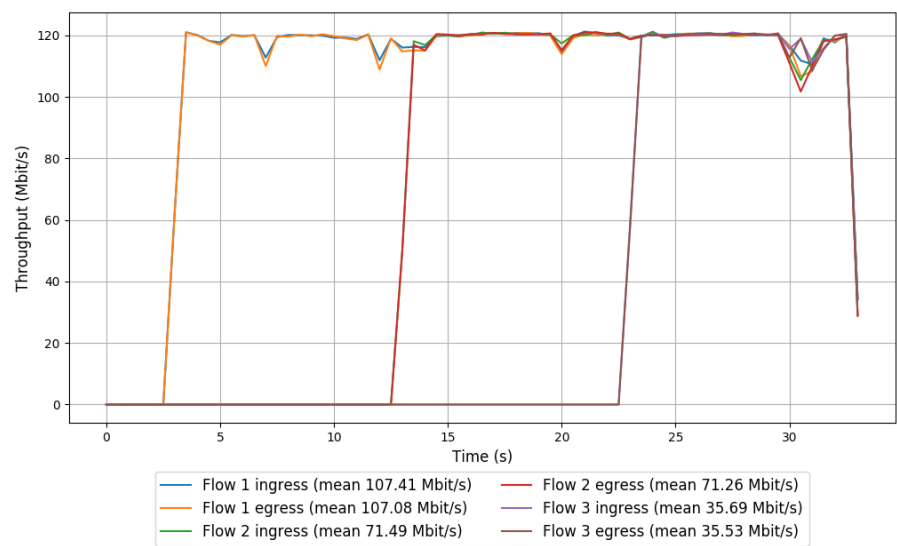
-- Flow 3:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: -2.941 ms

Loss rate: 0.49%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Sat, 01 Jul 2017 13:15:56 +0000

End at: Sat, 01 Jul 2017 13:16:26 +0000

Local clock offset: 0.05 ms

Remote clock offset: -4.555 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:20:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.19 Mbit/s

95th percentile per-packet one-way delay: -3.057 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 107.18 Mbit/s

95th percentile per-packet one-way delay: -3.100 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: -2.980 ms

Loss rate: 0.57%

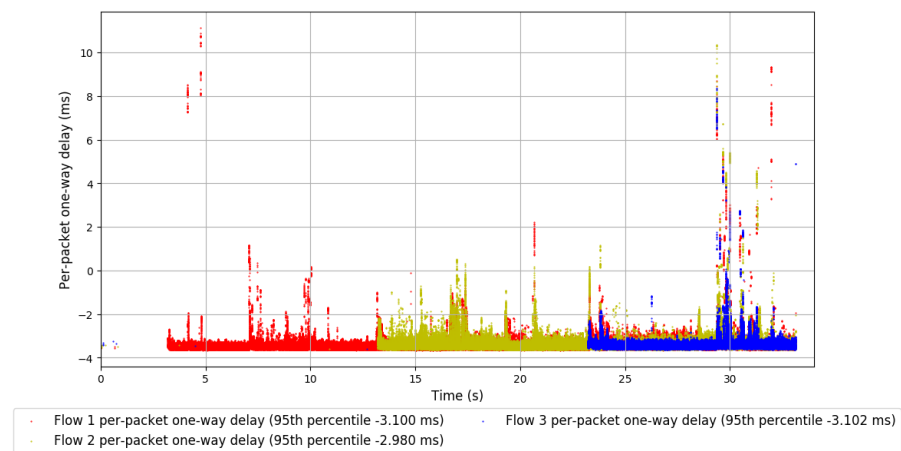
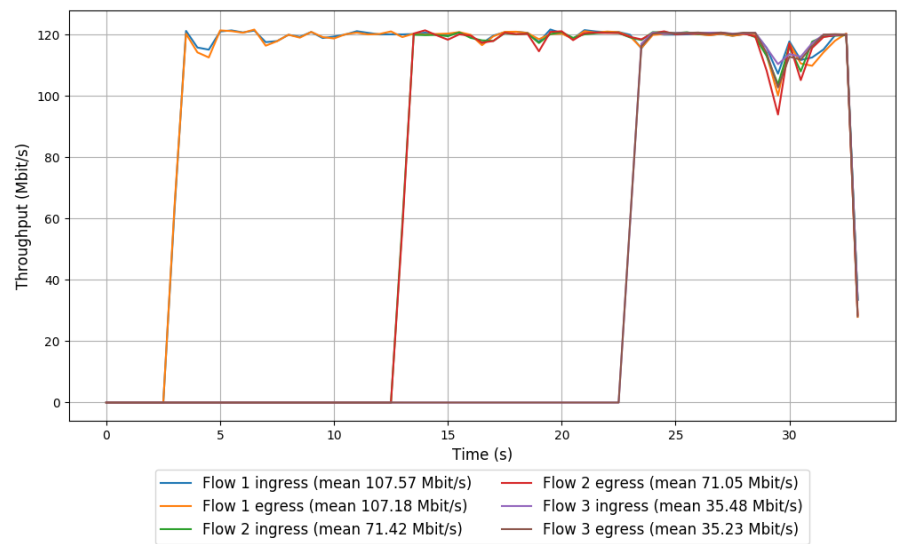
-- Flow 3:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: -3.102 ms

Loss rate: 0.76%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Sat, 01 Jul 2017 13:36:45 +0000

End at: Sat, 01 Jul 2017 13:37:15 +0000

Local clock offset: 0.05 ms

Remote clock offset: -4.929 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:20:49 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 212.16 Mbit/s

95th percentile per-packet one-way delay: -3.232 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 106.61 Mbit/s

95th percentile per-packet one-way delay: -3.112 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 70.06 Mbit/s

95th percentile per-packet one-way delay: -3.236 ms

Loss rate: 0.47%

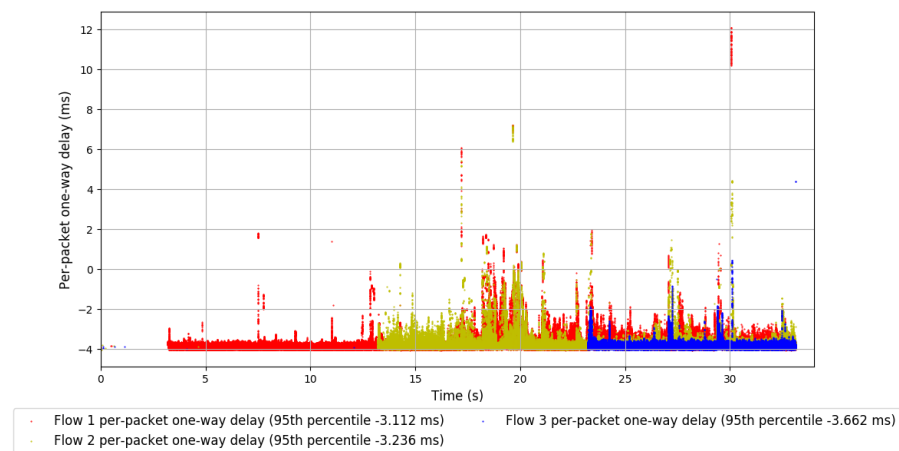
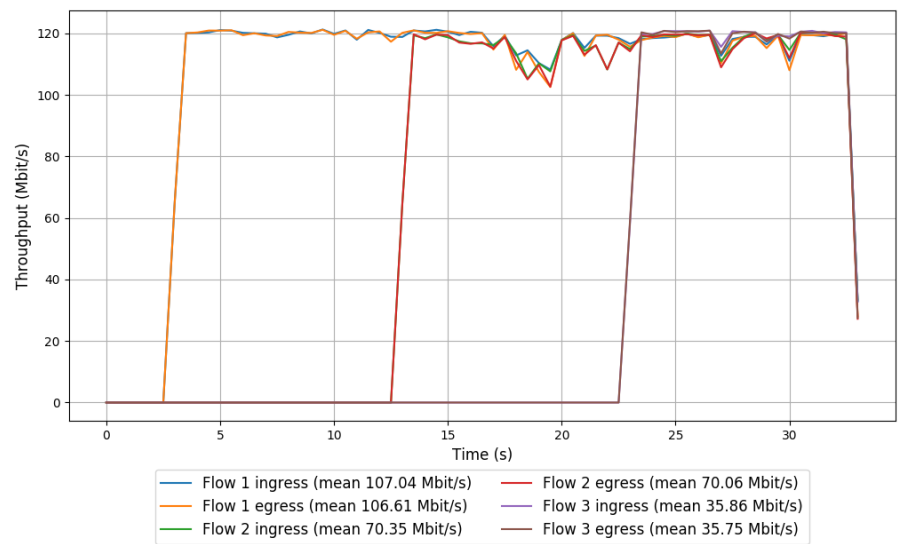
-- Flow 3:

Average throughput: 35.75 Mbit/s

95th percentile per-packet one-way delay: -3.662 ms

Loss rate: 0.34%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Sat, 01 Jul 2017 13:57:31 +0000

End at: Sat, 01 Jul 2017 13:58:01 +0000

Local clock offset: 0.182 ms

Remote clock offset: -4.51 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:20:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 212.52 Mbit/s

95th percentile per-packet one-way delay: -2.767 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 106.82 Mbit/s

95th percentile per-packet one-way delay: -2.932 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: -2.708 ms

Loss rate: 0.48%

-- Flow 3:

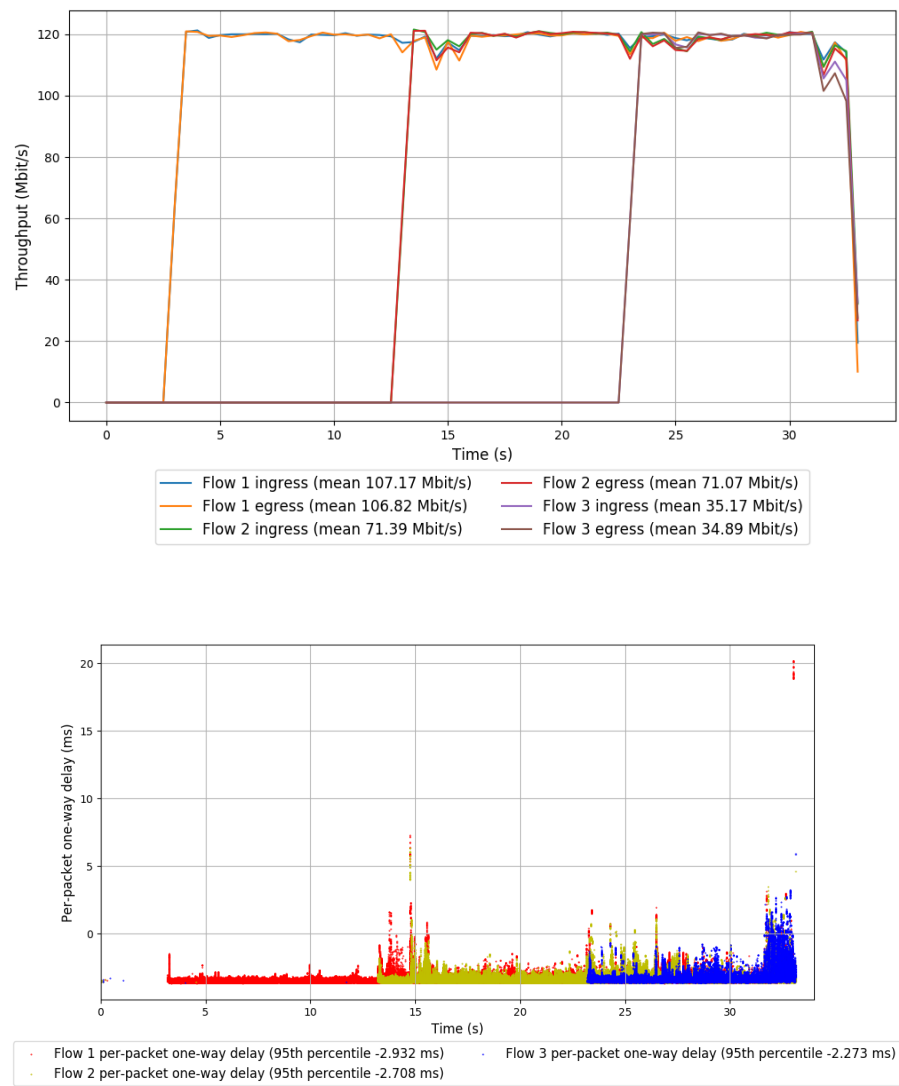
Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: -2.273 ms

Loss rate: 0.85%



Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Sat, 01 Jul 2017 14:18:12 +0000

End at: Sat, 01 Jul 2017 14:18:42 +0000

Local clock offset: 0.214 ms

Remote clock offset: -4.019 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:21:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 205.87 Mbit/s

95th percentile per-packet one-way delay: 0.133 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: -0.801 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 0.337 ms

Loss rate: 1.29%

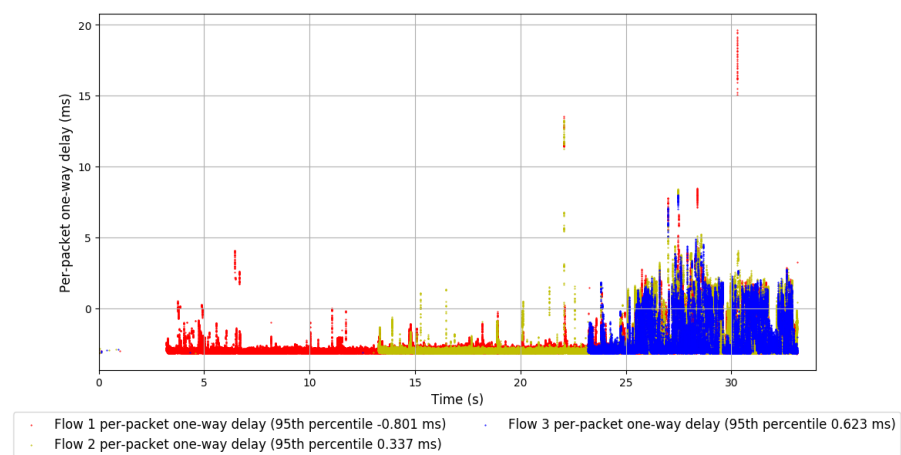
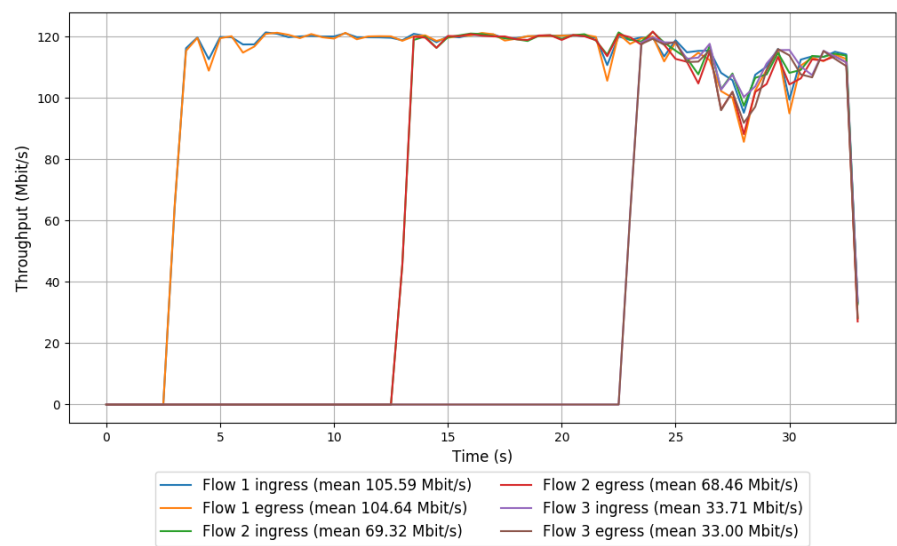
-- Flow 3:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 0.623 ms

Loss rate: 2.16%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Sat, 01 Jul 2017 14:38:54 +0000

End at: Sat, 01 Jul 2017 14:39:24 +0000

Local clock offset: 0.137 ms

Remote clock offset: -3.749 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:21:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 210.06 Mbit/s

95th percentile per-packet one-way delay: 0.155 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 105.85 Mbit/s

95th percentile per-packet one-way delay: -0.600 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 70.06 Mbit/s

95th percentile per-packet one-way delay: -0.027 ms

Loss rate: 0.63%

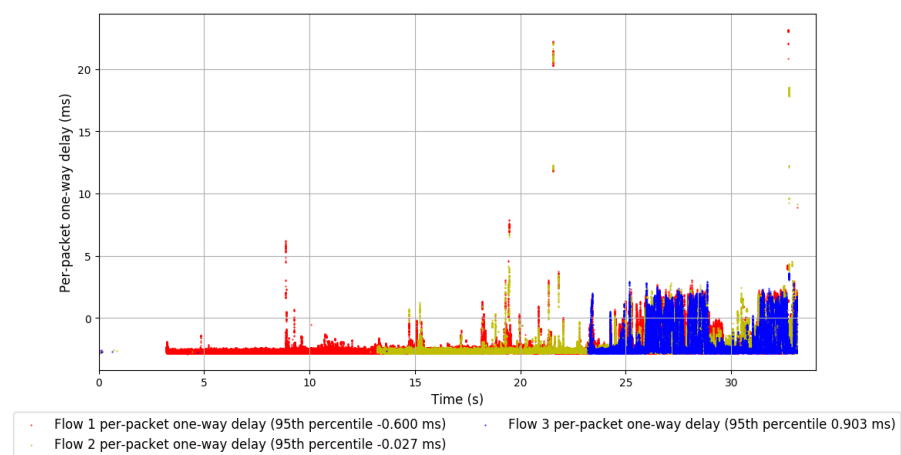
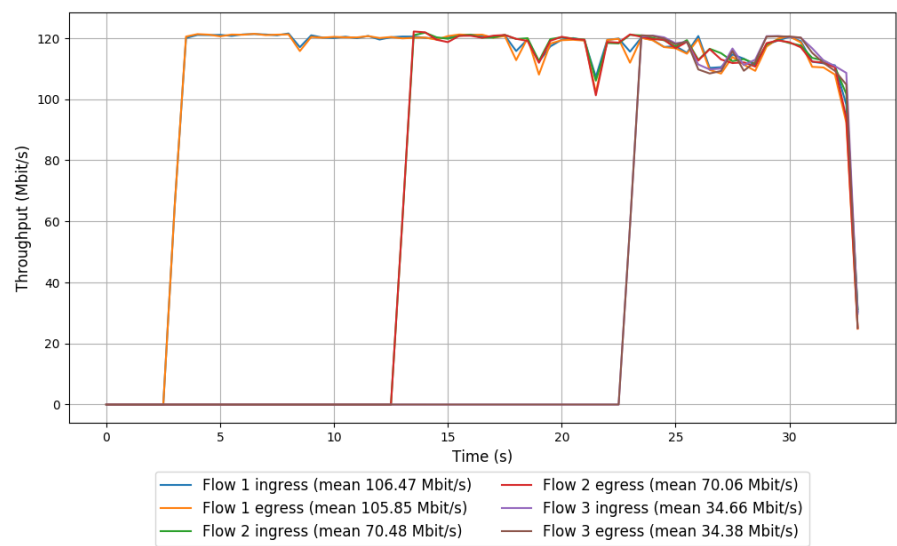
-- Flow 3:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 0.903 ms

Loss rate: 0.88%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Sat, 01 Jul 2017 14:59:35 +0000

End at: Sat, 01 Jul 2017 15:00:05 +0000

Local clock offset: 0.05 ms

Remote clock offset: -3.084 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:21:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.21 Mbit/s

95th percentile per-packet one-way delay: -1.418 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 106.77 Mbit/s

95th percentile per-packet one-way delay: -1.194 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: -1.757 ms

Loss rate: 0.34%

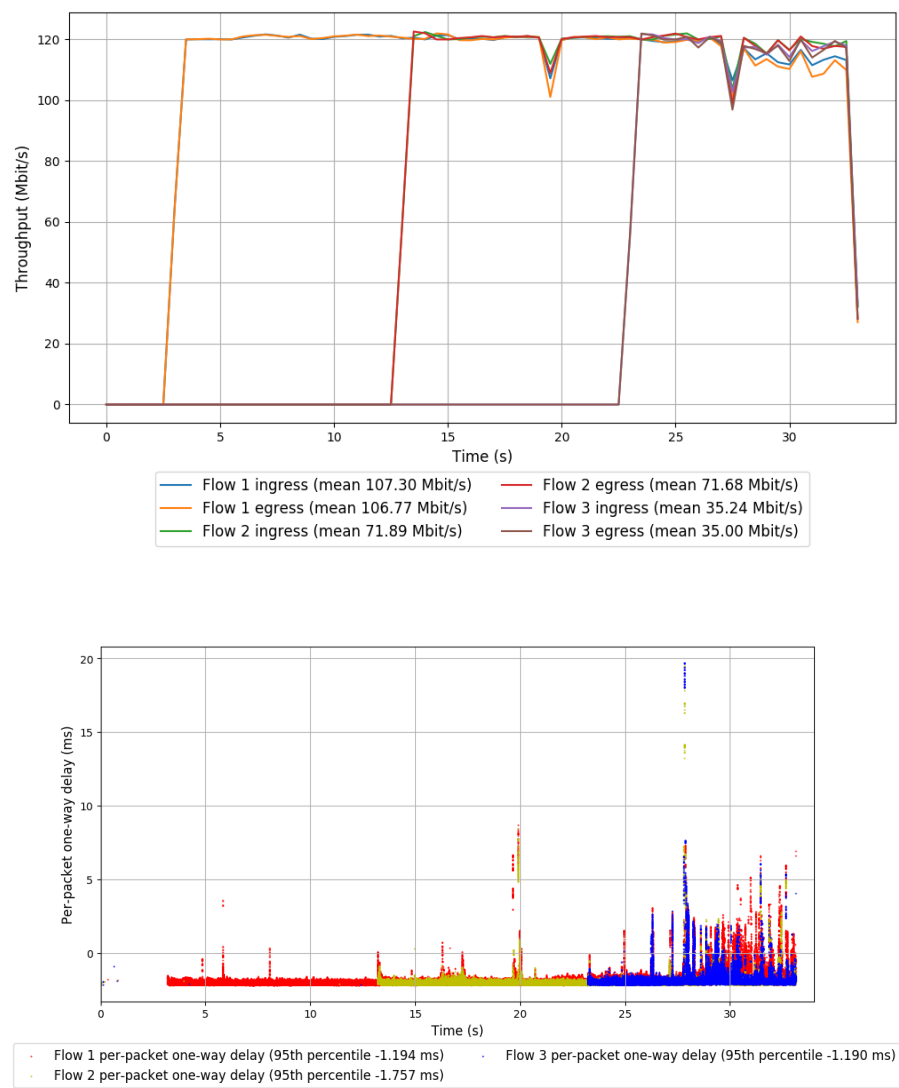
-- Flow 3:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: -1.190 ms

Loss rate: 0.73%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Sat, 01 Jul 2017 15:20:13 +0000

End at: Sat, 01 Jul 2017 15:20:43 +0000

Local clock offset: 0.273 ms

Remote clock offset: -2.157 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:21:55 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.64 Mbit/s

95th percentile per-packet one-way delay: -0.856 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 106.19 Mbit/s

95th percentile per-packet one-way delay: -0.832 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: -0.755 ms

Loss rate: 0.37%

-- Flow 3:

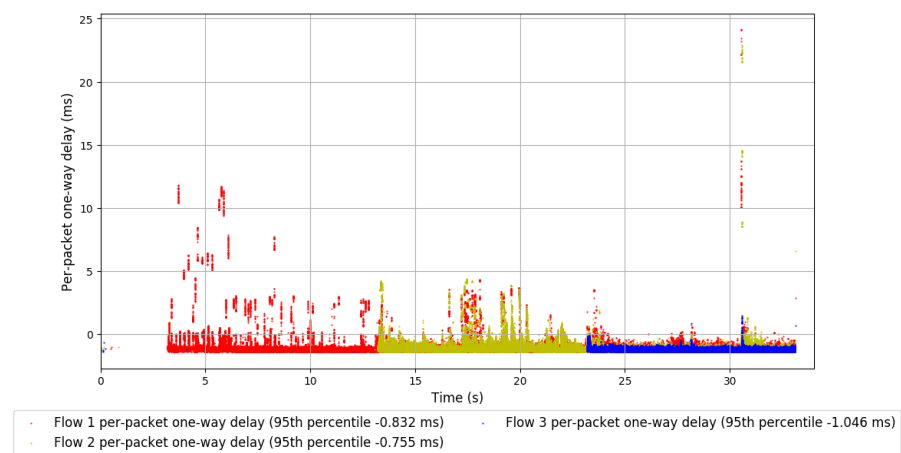
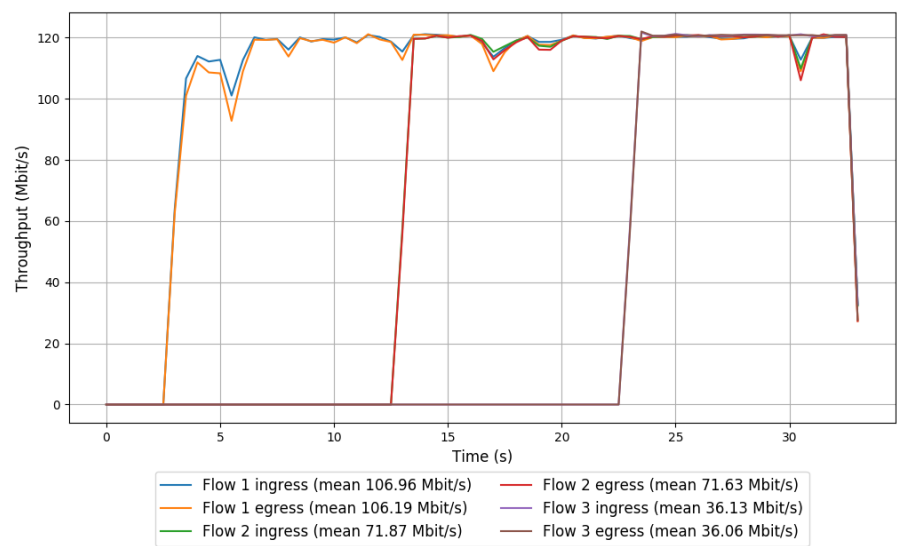
Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: -1.046 ms

Loss rate: 0.26%



Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Sat, 01 Jul 2017 15:40:57 +0000

End at: Sat, 01 Jul 2017 15:41:27 +0000

Local clock offset: 0.367 ms

Remote clock offset: -2.186 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.14 Mbit/s

95th percentile per-packet one-way delay: -1.061 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 106.77 Mbit/s

95th percentile per-packet one-way delay: -1.038 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 71.71 Mbit/s

95th percentile per-packet one-way delay: -1.041 ms

Loss rate: 0.30%

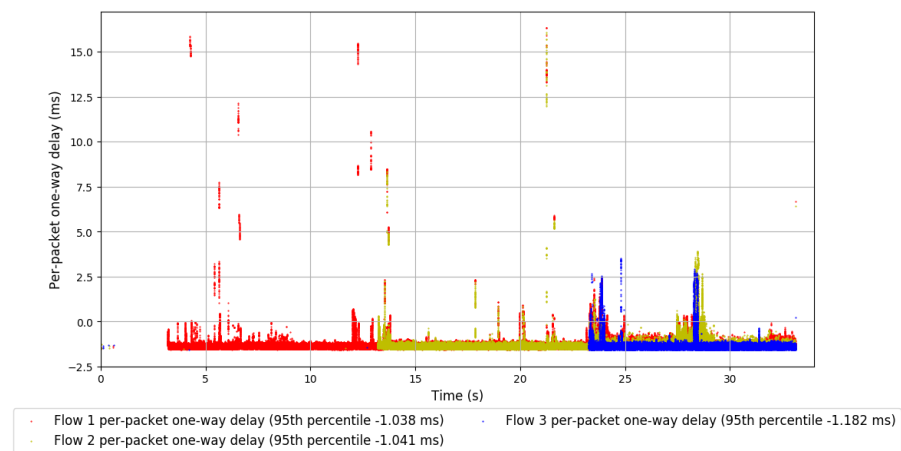
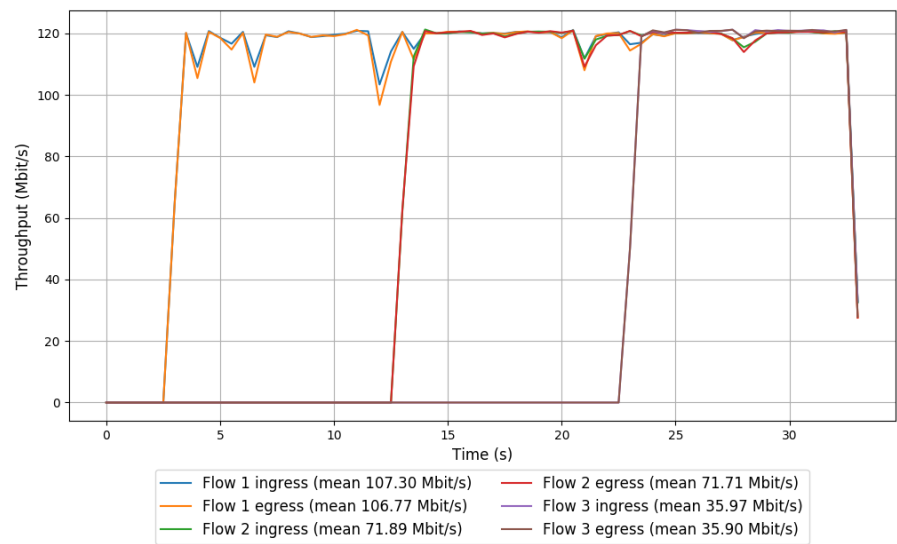
-- Flow 3:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: -1.182 ms

Loss rate: 0.24%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Sat, 01 Jul 2017 16:01:47 +0000

End at: Sat, 01 Jul 2017 16:02:17 +0000

Local clock offset: 0.421 ms

Remote clock offset: -2.188 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 206.61 Mbit/s

95th percentile per-packet one-way delay: -0.570 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 104.61 Mbit/s

95th percentile per-packet one-way delay: -0.766 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: -0.435 ms

Loss rate: 1.43%

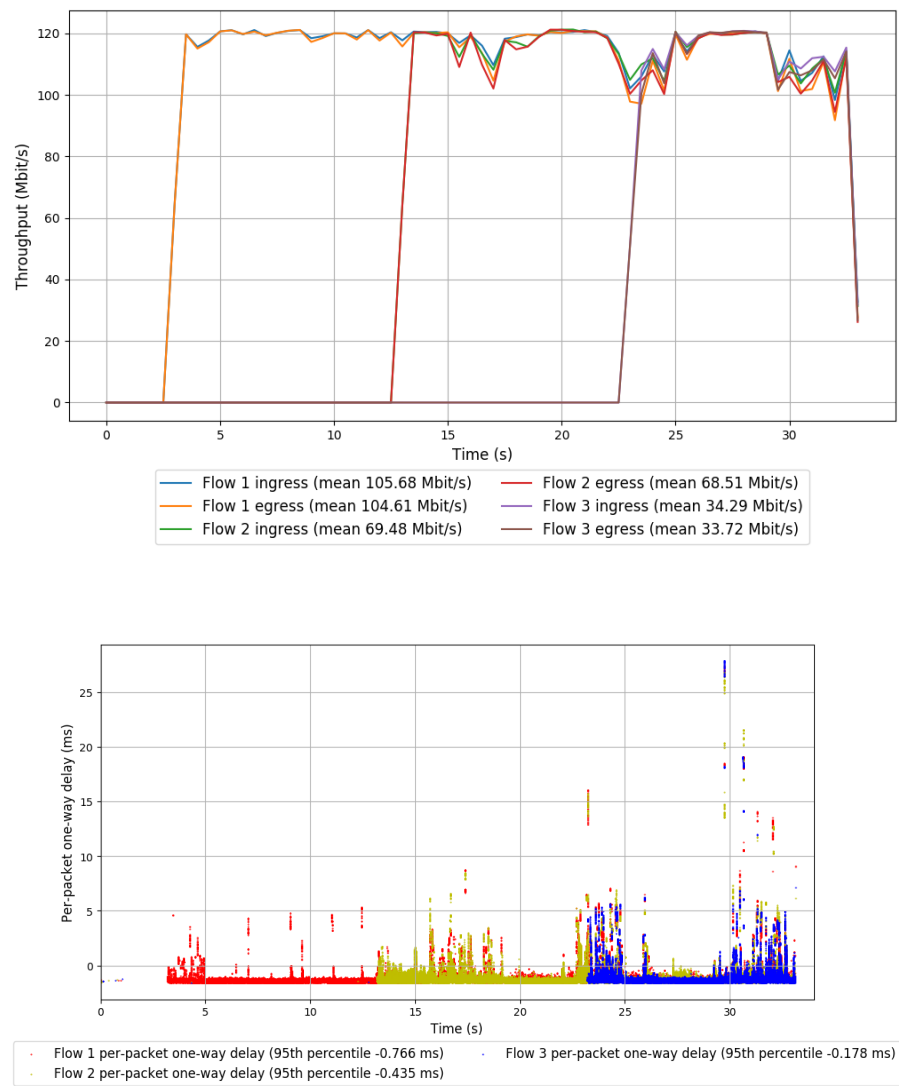
-- Flow 3:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: -0.178 ms

Loss rate: 1.70%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 12:56:32 +0000

End at: Sat, 01 Jul 2017 12:57:02 +0000

Local clock offset: 0.022 ms

Remote clock offset: -4.323 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -2.951 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -2.919 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -3.005 ms

Loss rate: 0.00%

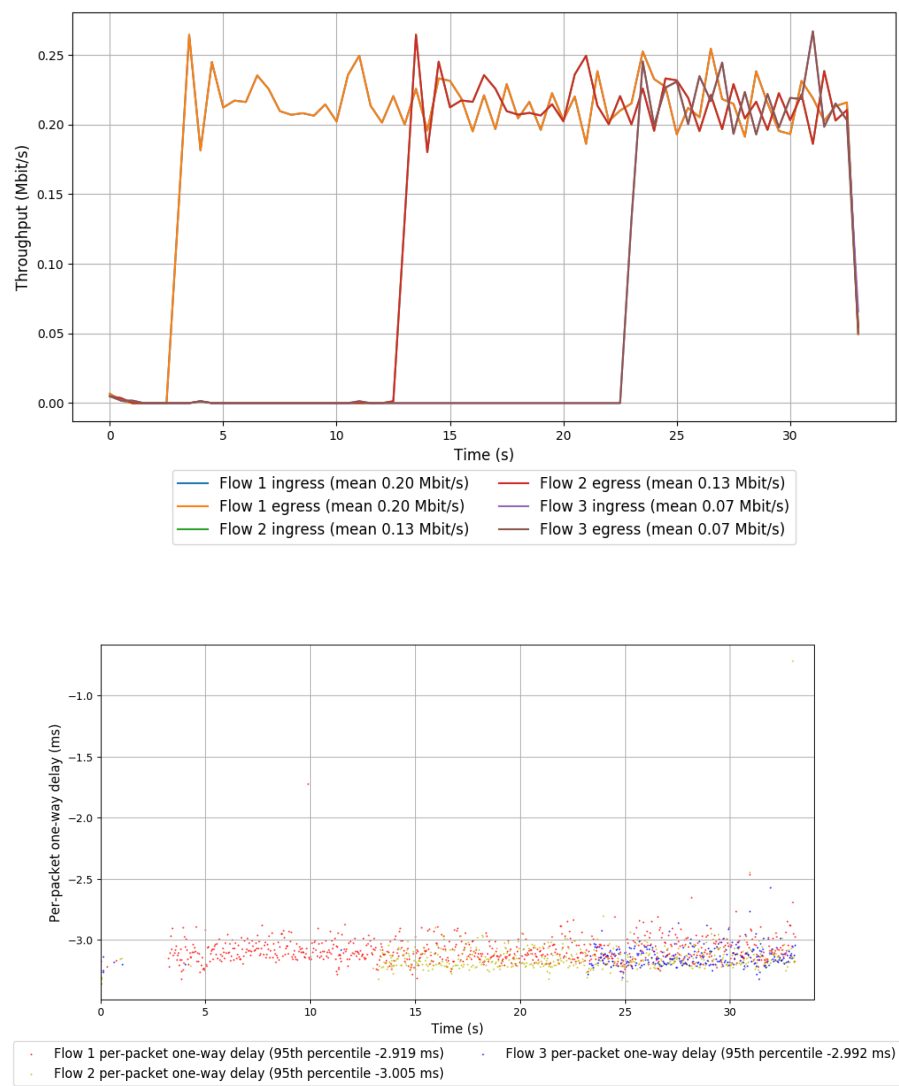
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -2.992 ms

Loss rate: 0.35%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 13:17:21 +0000

End at: Sat, 01 Jul 2017 13:17:51 +0000

Local clock offset: 0.011 ms

Remote clock offset: -4.574 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -3.282 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -3.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -3.312 ms

Loss rate: 0.00%

-- Flow 3:

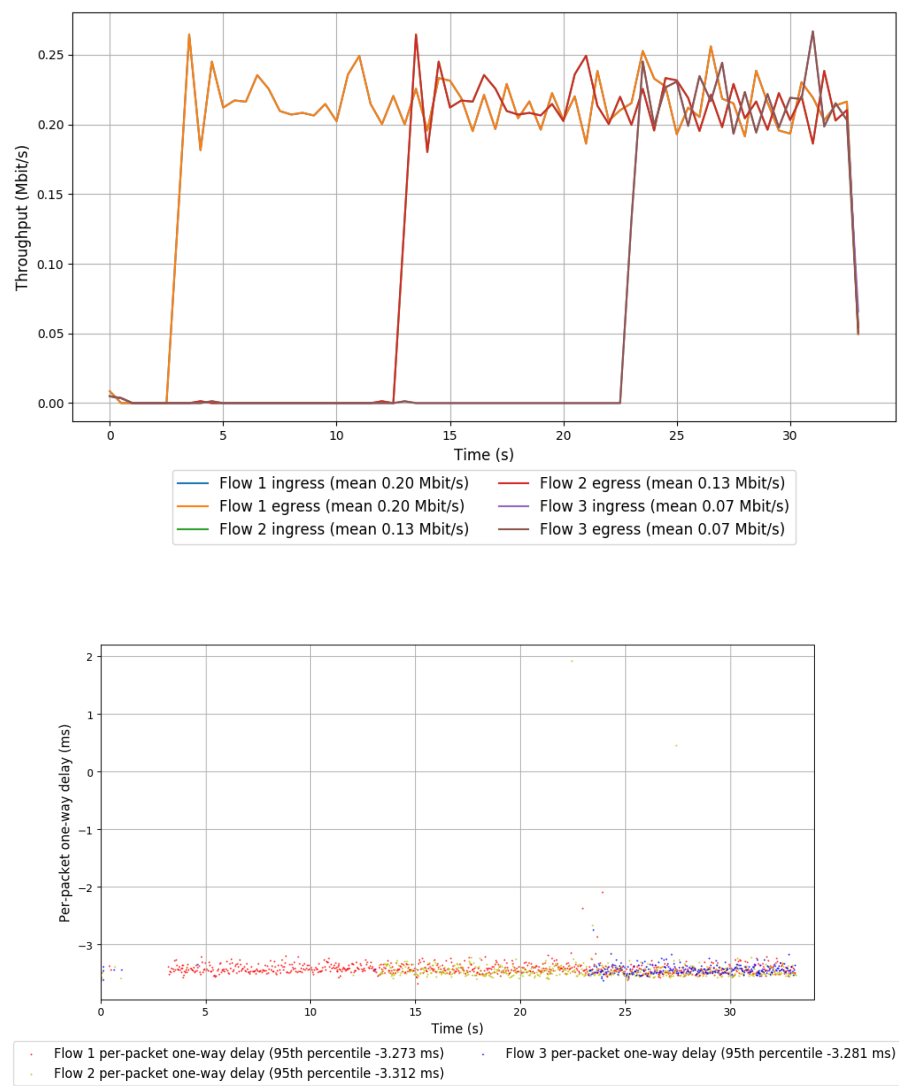
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -3.281 ms

Loss rate: 0.35%



Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 13:38:11 +0000

End at: Sat, 01 Jul 2017 13:38:41 +0000

Local clock offset: 0.147 ms

Remote clock offset: -4.954 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -3.665 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -3.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -3.658 ms

Loss rate: 0.20%

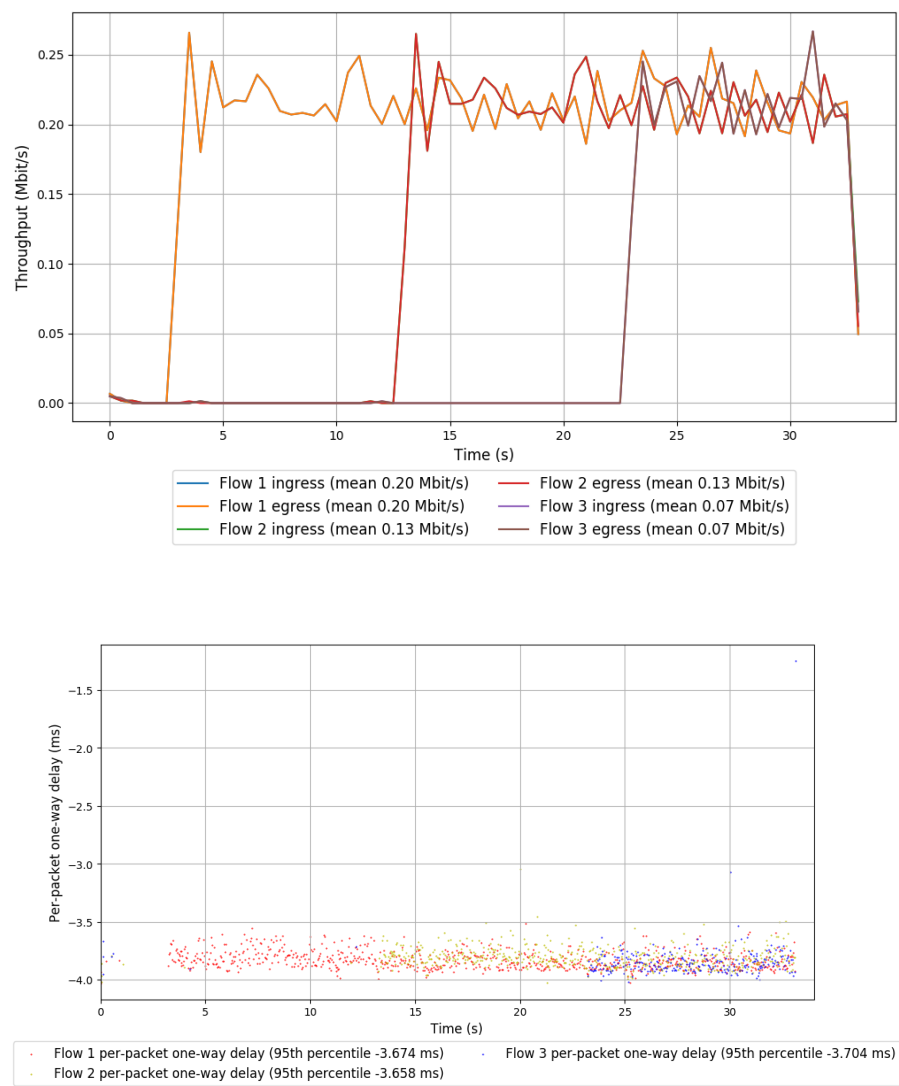
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -3.704 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 13:58:57 +0000

End at: Sat, 01 Jul 2017 13:59:27 +0000

Local clock offset: 0.193 ms

Remote clock offset: -4.472 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -3.220 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -3.201 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -3.225 ms

Loss rate: 0.00%

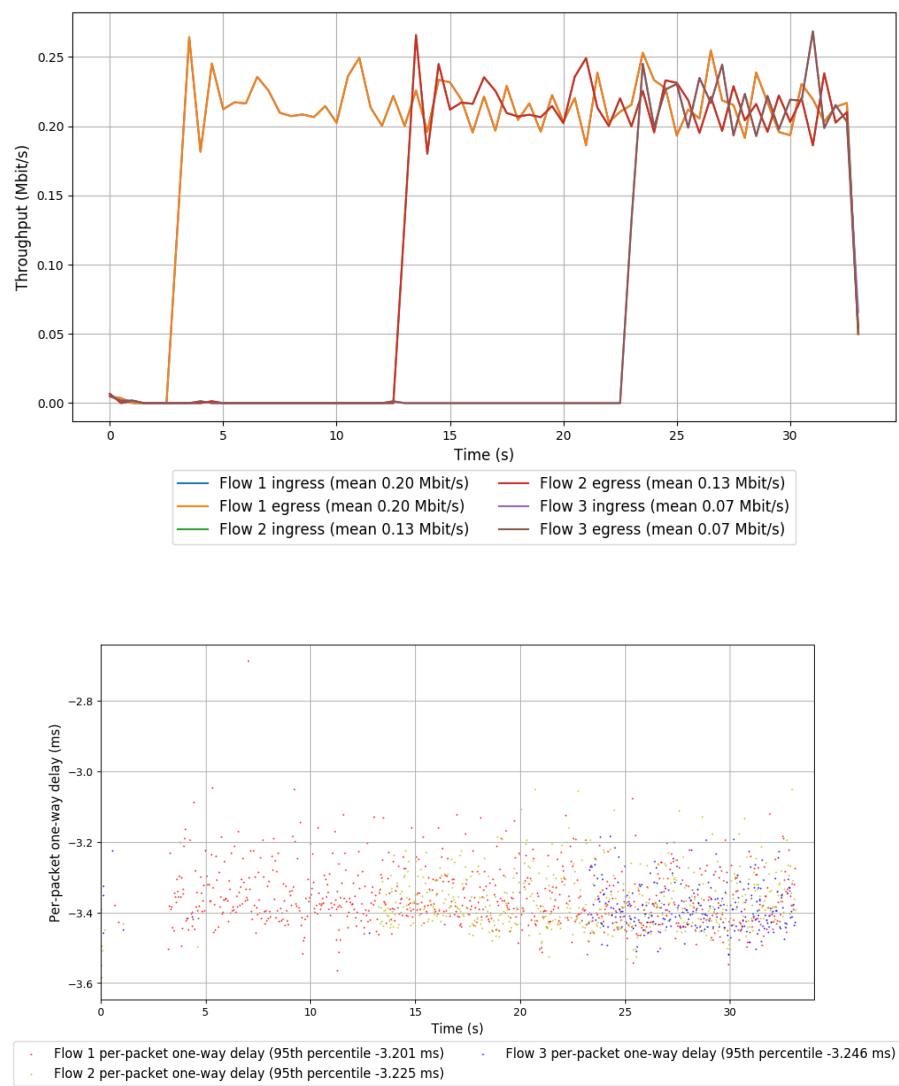
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -3.246 ms

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 14:19:37 +0000

End at: Sat, 01 Jul 2017 14:20:07 +0000

Local clock offset: 0.125 ms

Remote clock offset: -4.026 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -2.695 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -2.671 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -2.728 ms

Loss rate: 0.00%

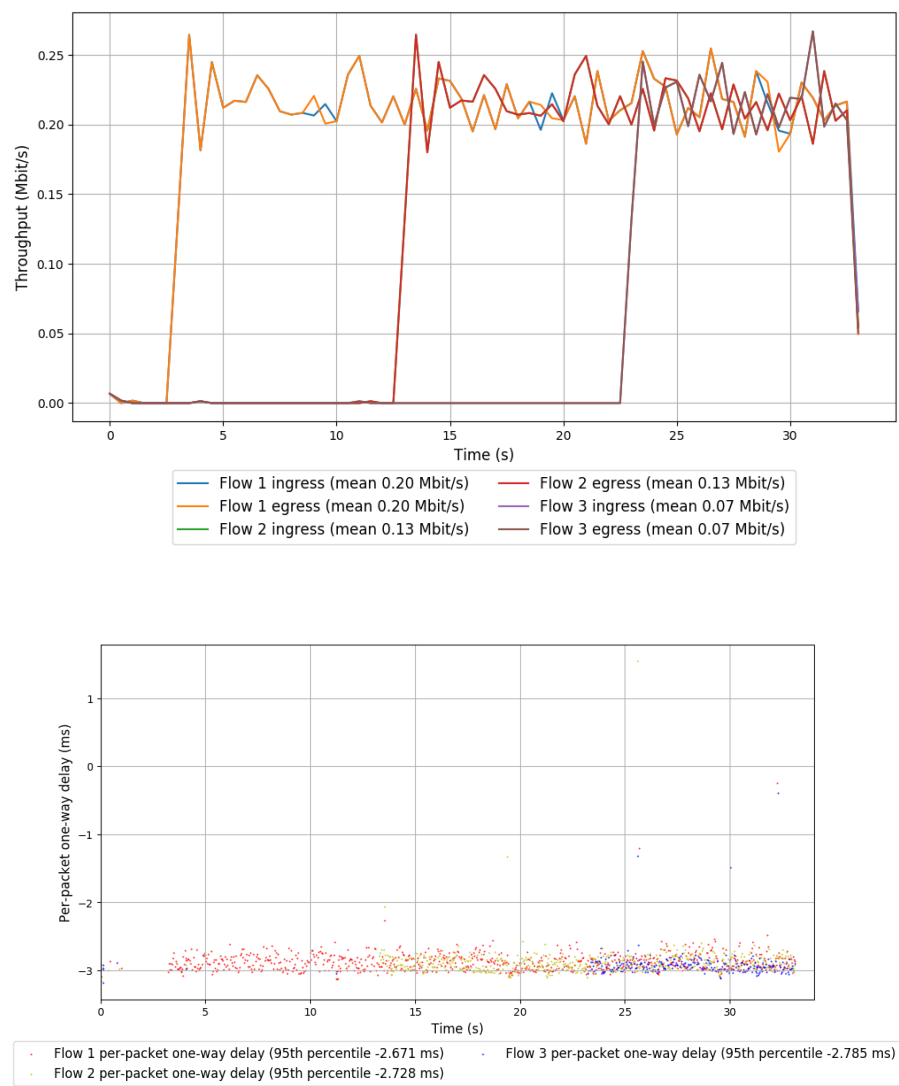
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -2.785 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 14:40:19 +0000

End at: Sat, 01 Jul 2017 14:40:49 +0000

Local clock offset: 0.049 ms

Remote clock offset: -3.599 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: -2.355 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -2.364 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -2.355 ms

Loss rate: 0.00%

-- Flow 3:

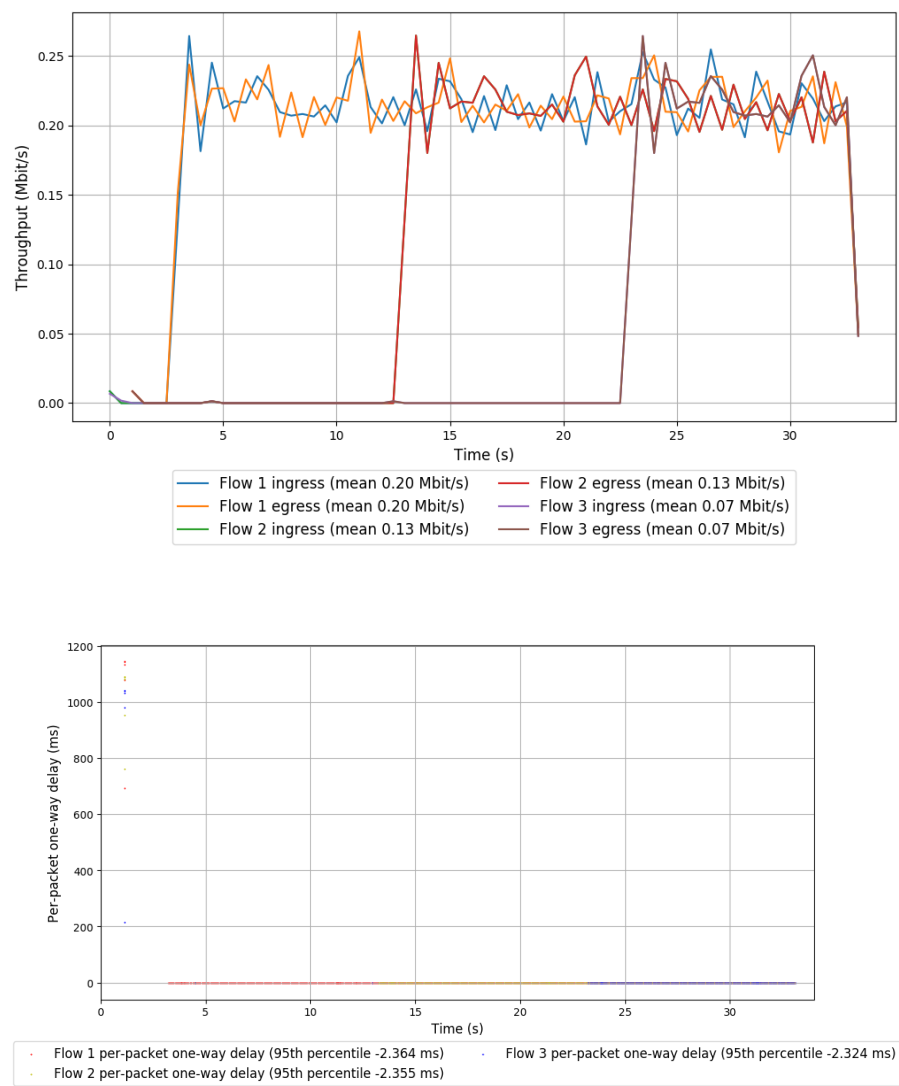
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -2.324 ms

Loss rate: 0.00%



Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 15:01:01 +0000

End at: Sat, 01 Jul 2017 15:01:31 +0000

Local clock offset: 0.066 ms

Remote clock offset: -3.017 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -1.702 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -1.705 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -1.693 ms

Loss rate: 0.00%

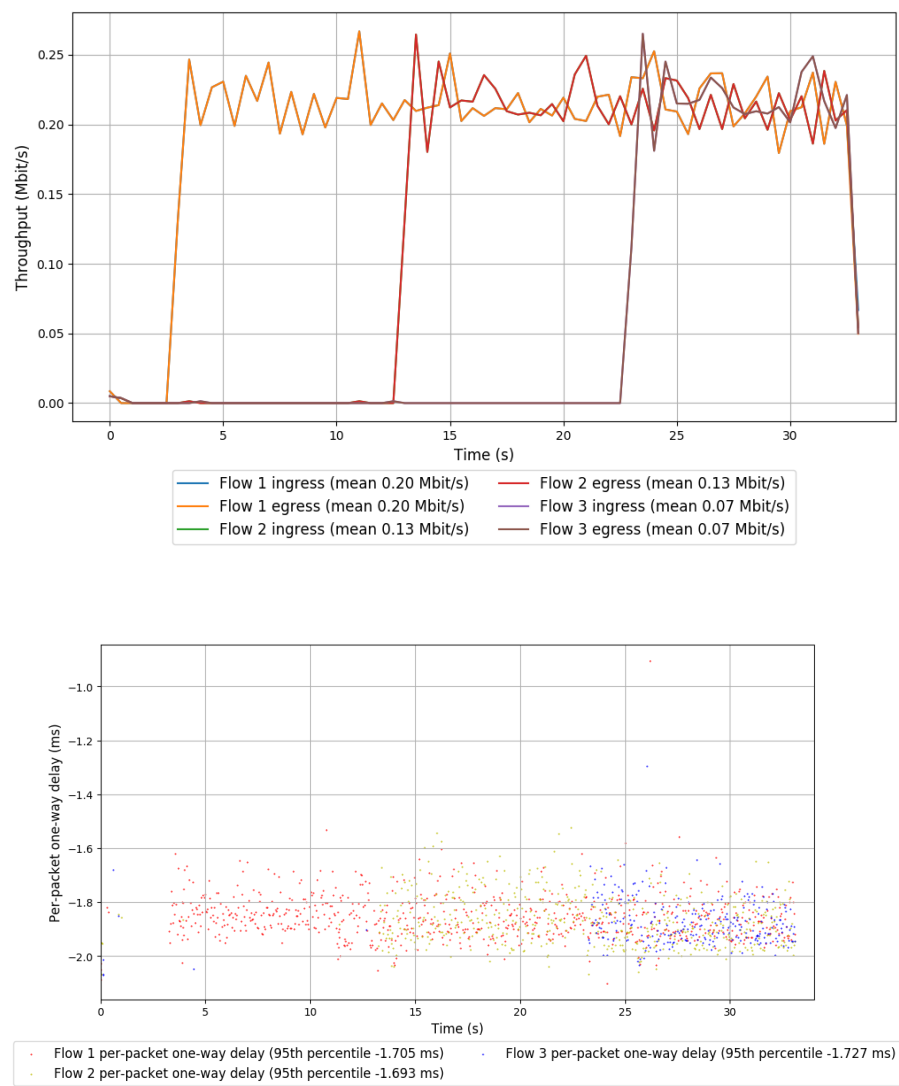
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -1.727 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 15:21:39 +0000

End at: Sat, 01 Jul 2017 15:22:09 +0000

Local clock offset: 0.194 ms

Remote clock offset: -2.16 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -1.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -0.992 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -1.033 ms

Loss rate: 0.00%

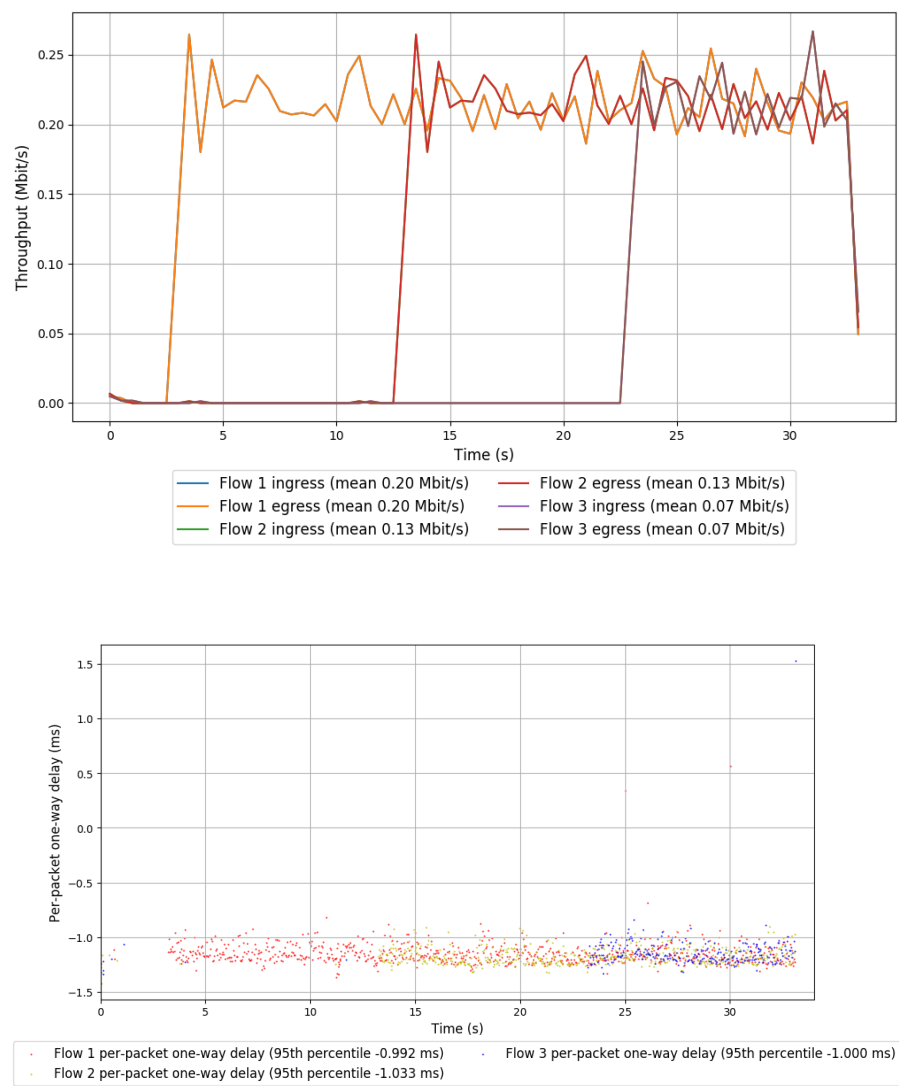
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -1.000 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 15:42:23 +0000

End at: Sat, 01 Jul 2017 15:42:53 +0000

Local clock offset: 0.338 ms

Remote clock offset: -2.203 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -1.179 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -1.166 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -1.209 ms

Loss rate: 0.20%

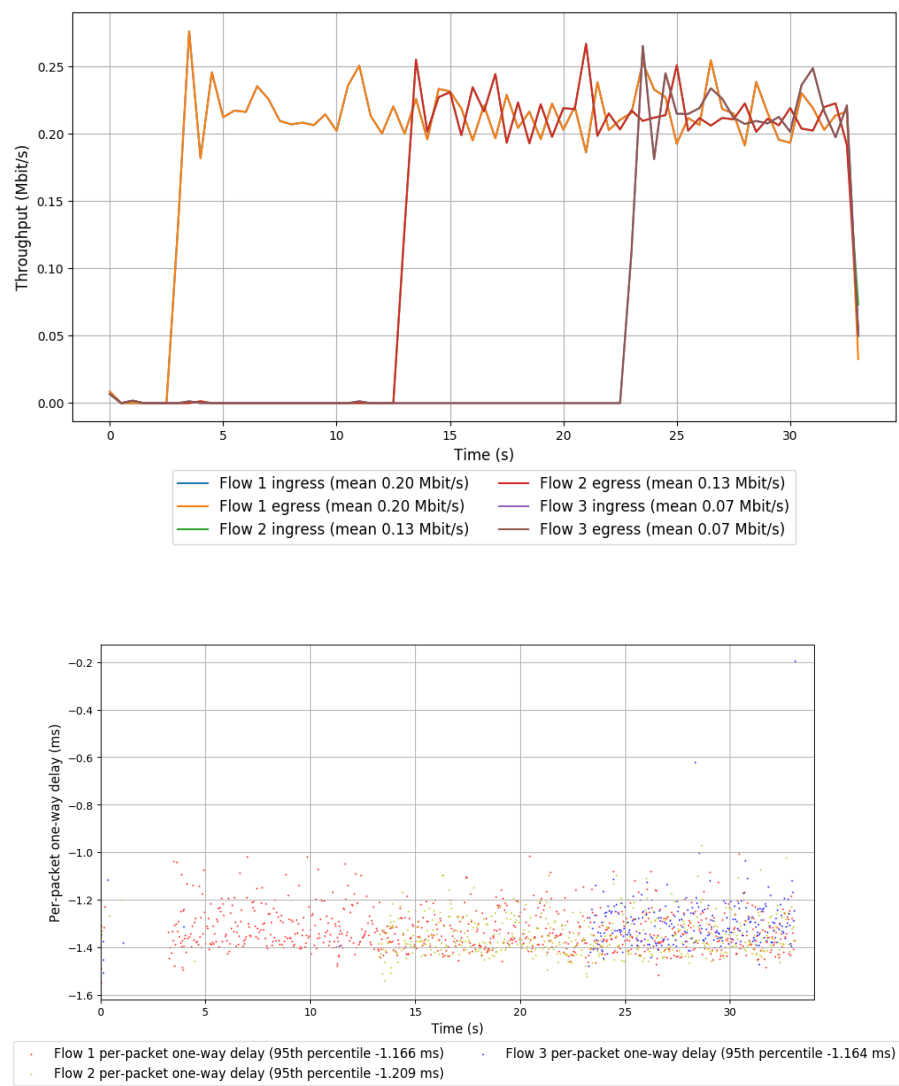
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -1.164 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Sat, 01 Jul 2017 16:03:12 +0000

End at: Sat, 01 Jul 2017 16:03:42 +0000

Local clock offset: 0.42 ms

Remote clock offset: -2.107 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: -1.206 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: -1.190 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: -1.233 ms

Loss rate: 0.00%

-- Flow 3:

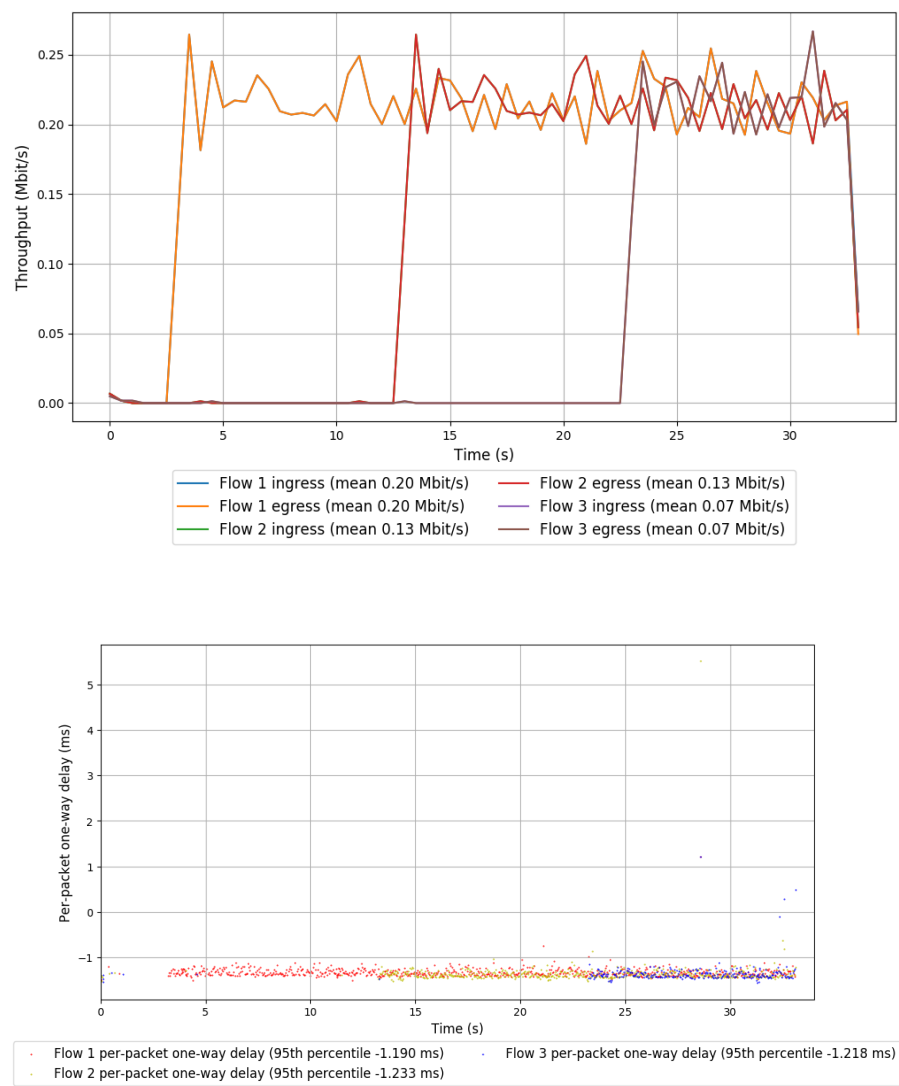
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: -1.218 ms

Loss rate: 0.00%



Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sat, 01 Jul 2017 12:46:00 +0000

End at: Sat, 01 Jul 2017 12:46:30 +0000

Local clock offset: -0.011 ms

Remote clock offset: -4.498 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:40 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: -3.284 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: -3.290 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: -3.288 ms

Loss rate: 0.09%

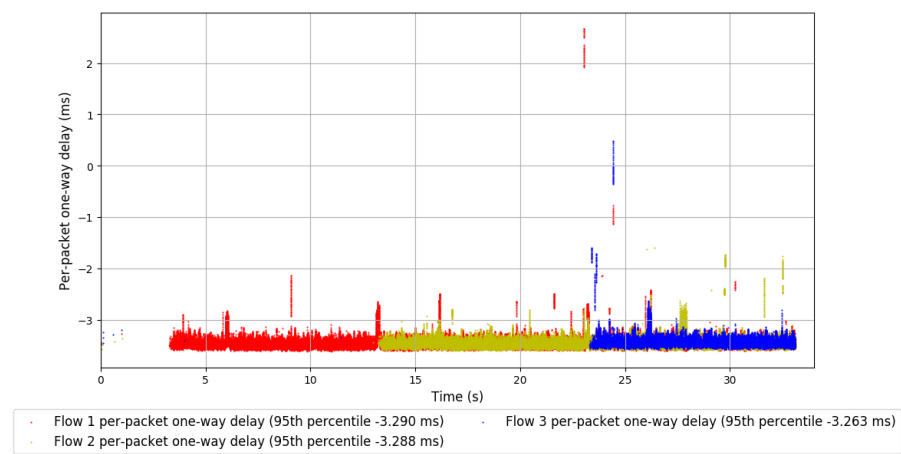
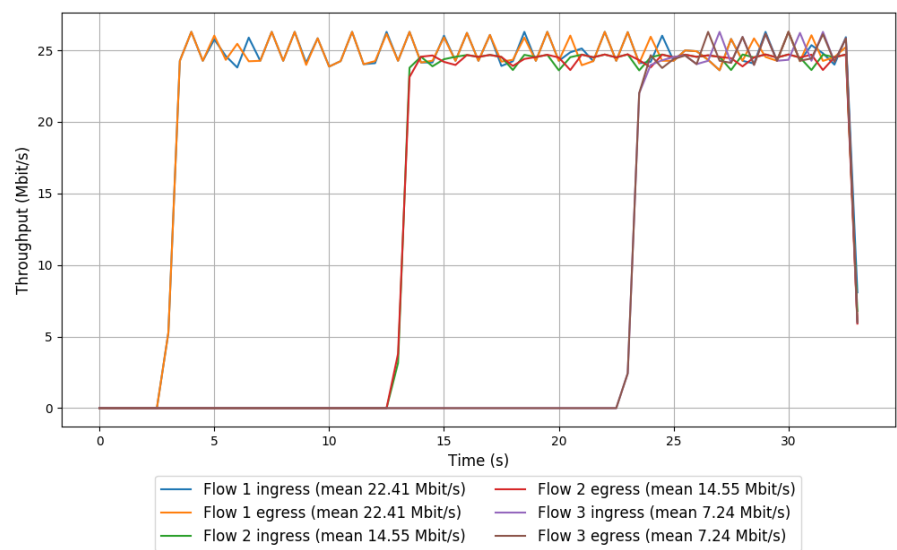
-- Flow 3:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: -3.263 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Sat, 01 Jul 2017 13:06:50 +0000

End at: Sat, 01 Jul 2017 13:07:20 +0000

Local clock offset: -0.01 ms

Remote clock offset: -4.349 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: -3.115 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: -3.127 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: -3.113 ms

Loss rate: 0.33%

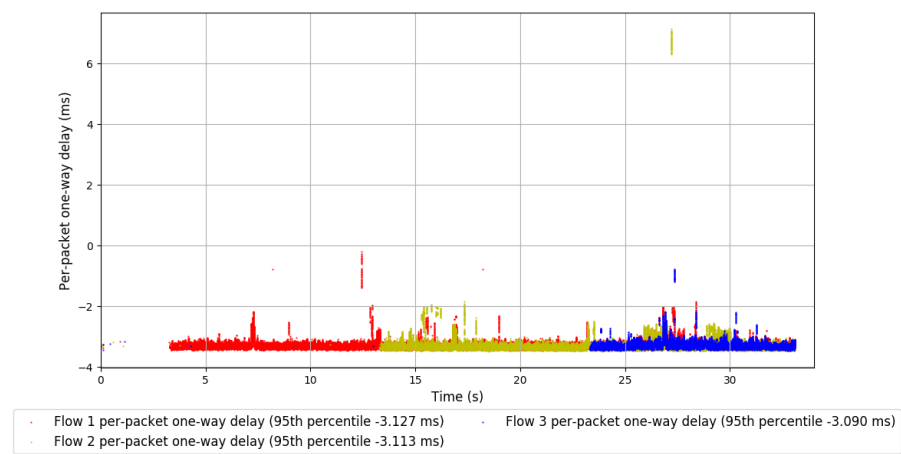
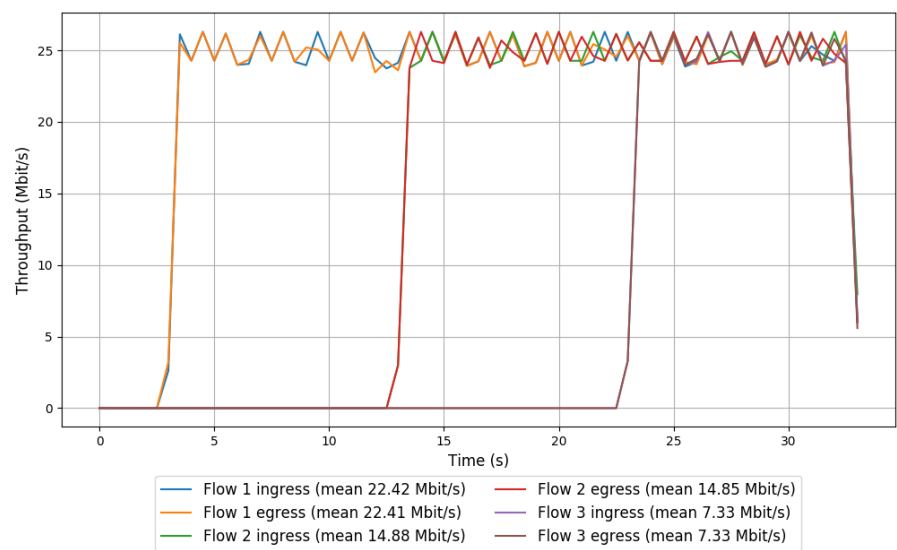
-- Flow 3:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: -3.090 ms

Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



### Run 3: Statistics of Sprout

Start at: Sat, 01 Jul 2017 13:27:40 +0000

End at: Sat, 01 Jul 2017 13:28:10 +0000

Local clock offset: 0.151 ms

Remote clock offset: -4.769 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: -3.480 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: -3.544 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 14.76 Mbit/s

95th percentile per-packet one-way delay: -3.291 ms

Loss rate: 0.54%

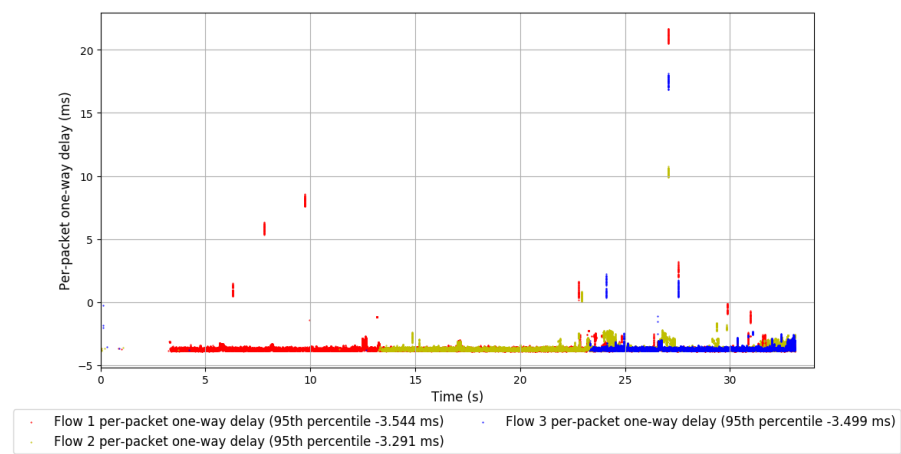
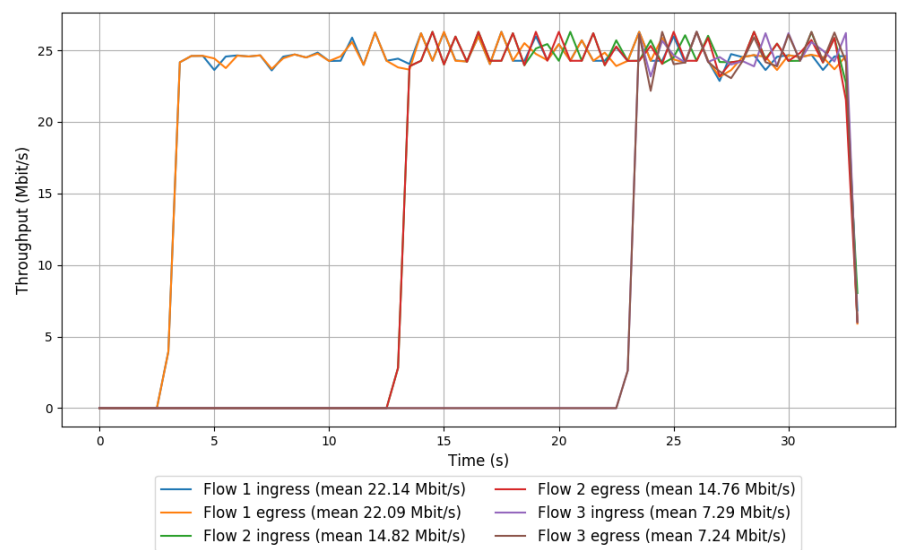
-- Flow 3:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: -3.499 ms

Loss rate: 0.63%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Sat, 01 Jul 2017 13:48:31 +0000

End at: Sat, 01 Jul 2017 13:49:01 +0000

Local clock offset: 0.105 ms

Remote clock offset: -4.777 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: -3.553 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: -3.560 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: -3.532 ms

Loss rate: 0.21%

-- Flow 3:

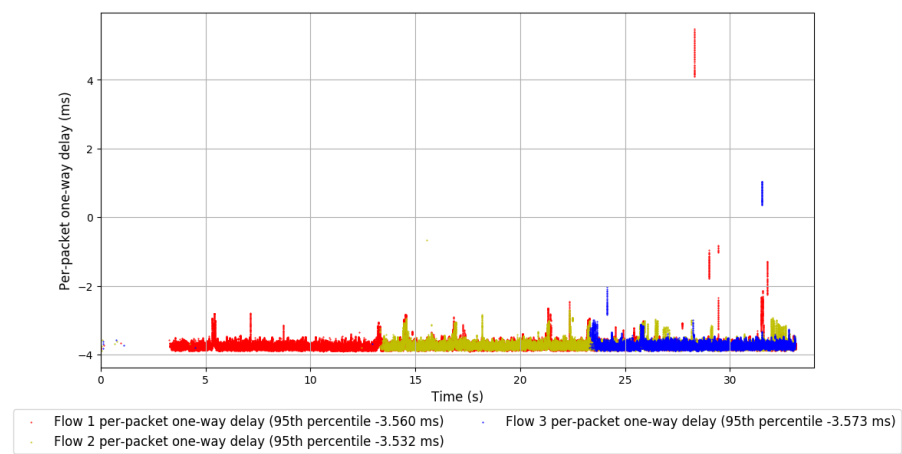
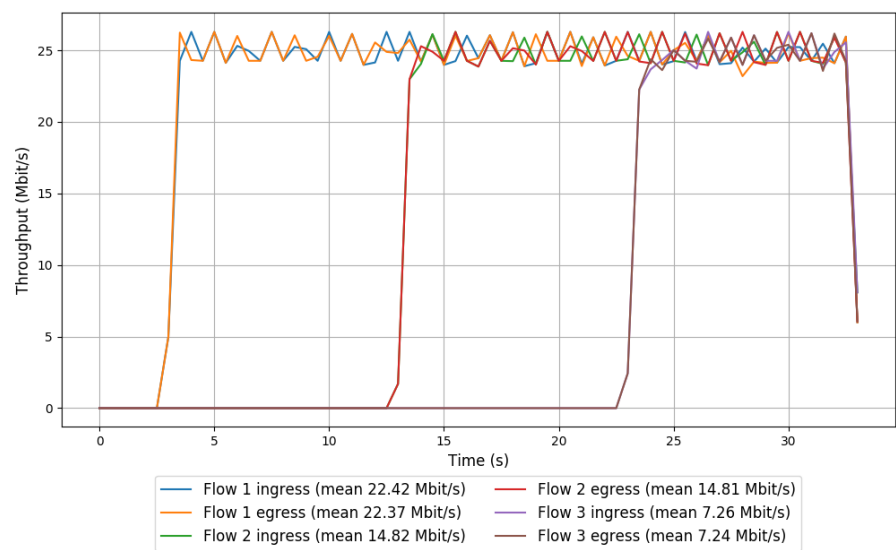
Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: -3.573 ms

Loss rate: 0.46%



Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Sat, 01 Jul 2017 14:09:14 +0000

End at: Sat, 01 Jul 2017 14:09:44 +0000

Local clock offset: 0.206 ms

Remote clock offset: -4.14 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: -3.047 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: -3.023 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 14.51 Mbit/s

95th percentile per-packet one-way delay: -3.070 ms

Loss rate: 0.11%

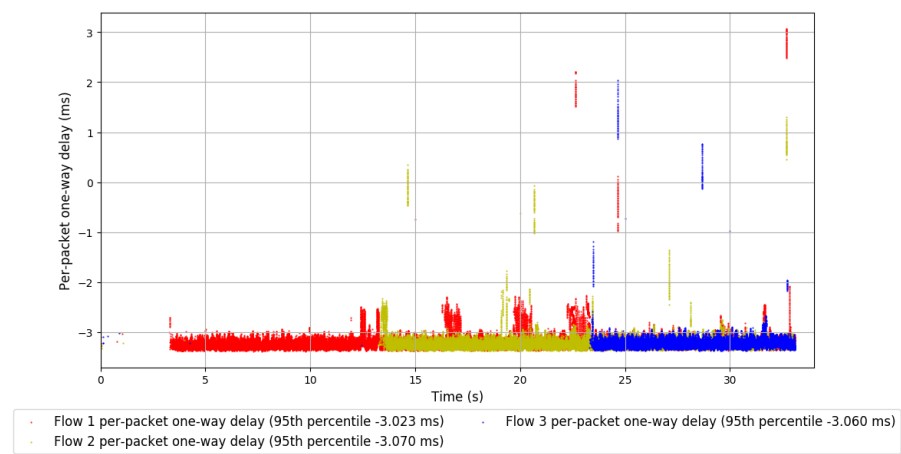
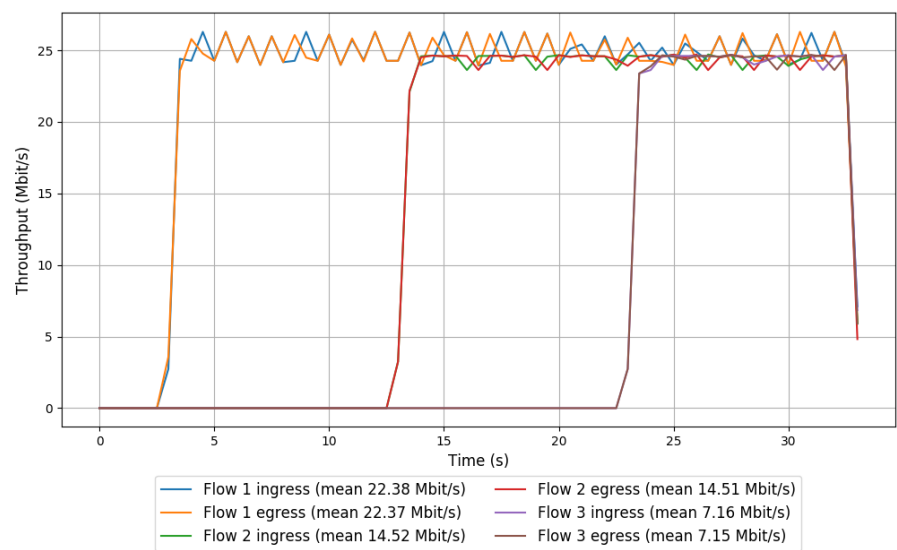
-- Flow 3:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: -3.060 ms

Loss rate: 0.21%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Sat, 01 Jul 2017 14:29:52 +0000

End at: Sat, 01 Jul 2017 14:30:22 +0000

Local clock offset: 0.117 ms

Remote clock offset: -3.962 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:22:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.70 Mbit/s

95th percentile per-packet one-way delay: -2.791 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: -2.842 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 14.76 Mbit/s

95th percentile per-packet one-way delay: -2.666 ms

Loss rate: 0.31%

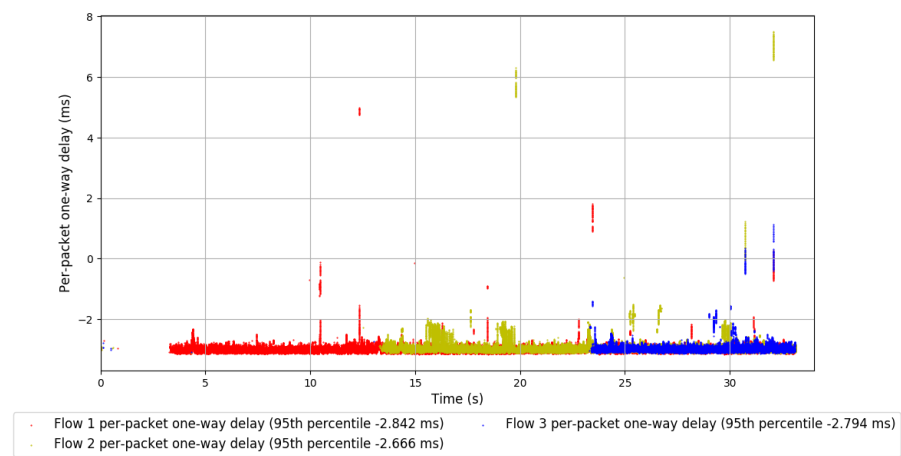
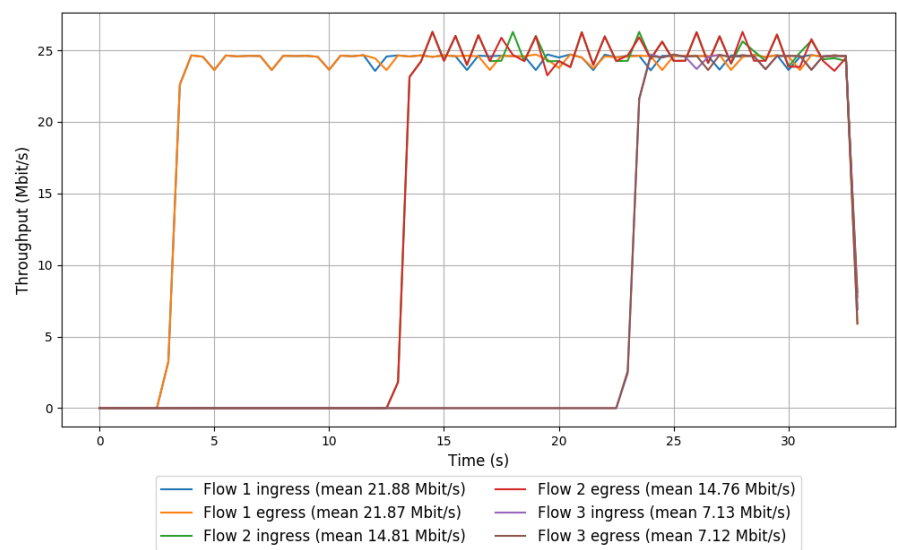
-- Flow 3:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: -2.794 ms

Loss rate: 0.21%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Sat, 01 Jul 2017 14:50:35 +0000

End at: Sat, 01 Jul 2017 14:51:05 +0000

Local clock offset: 0.016 ms

Remote clock offset: -3.41 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:23:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: -2.124 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: -2.114 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: -2.169 ms

Loss rate: 0.35%

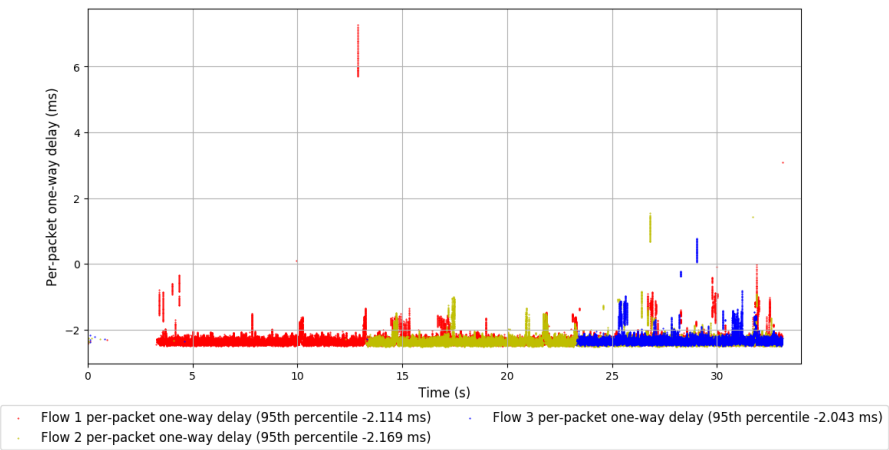
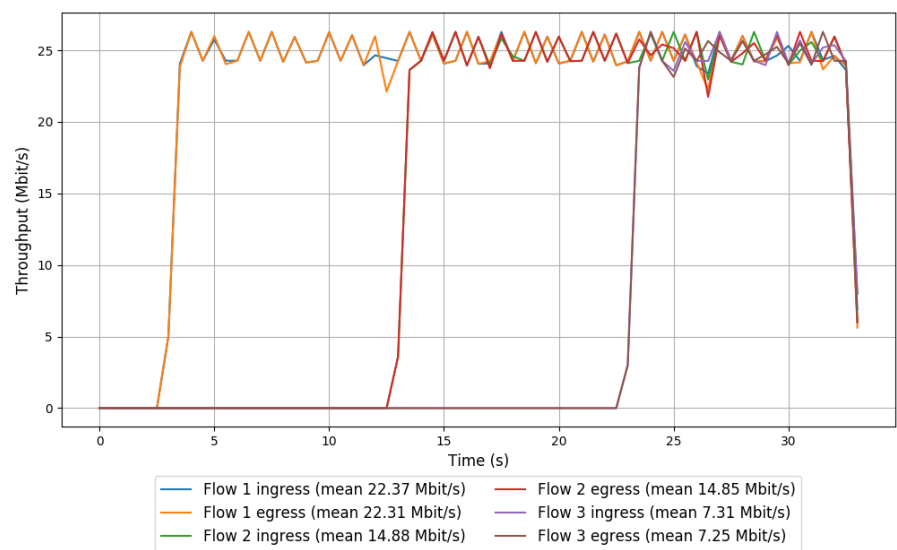
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: -2.043 ms

Loss rate: 0.71%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Sat, 01 Jul 2017 15:11:11 +0000

End at: Sat, 01 Jul 2017 15:11:41 +0000

Local clock offset: 0.176 ms

Remote clock offset: -2.571 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:23:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: -1.425 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: -1.430 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 14.52 Mbit/s

95th percentile per-packet one-way delay: -1.432 ms

Loss rate: 0.10%

-- Flow 3:

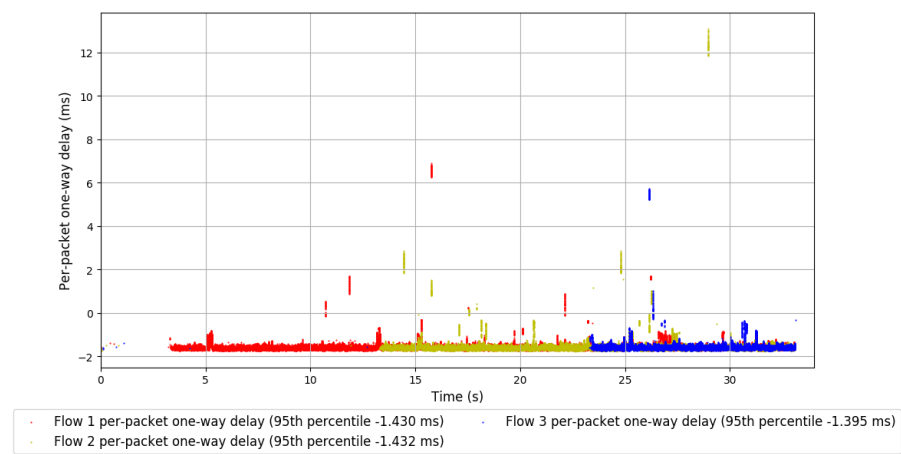
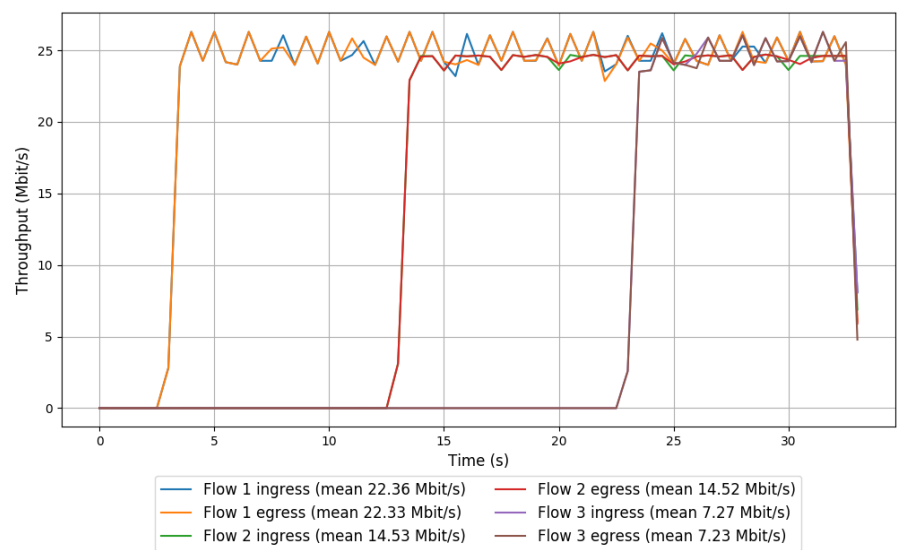
Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: -1.395 ms

Loss rate: 0.62%



Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Sat, 01 Jul 2017 15:31:56 +0000

End at: Sat, 01 Jul 2017 15:32:26 +0000

Local clock offset: 0.321 ms

Remote clock offset: -2.194 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:23:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: -1.147 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: -1.141 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: -1.150 ms

Loss rate: 0.09%

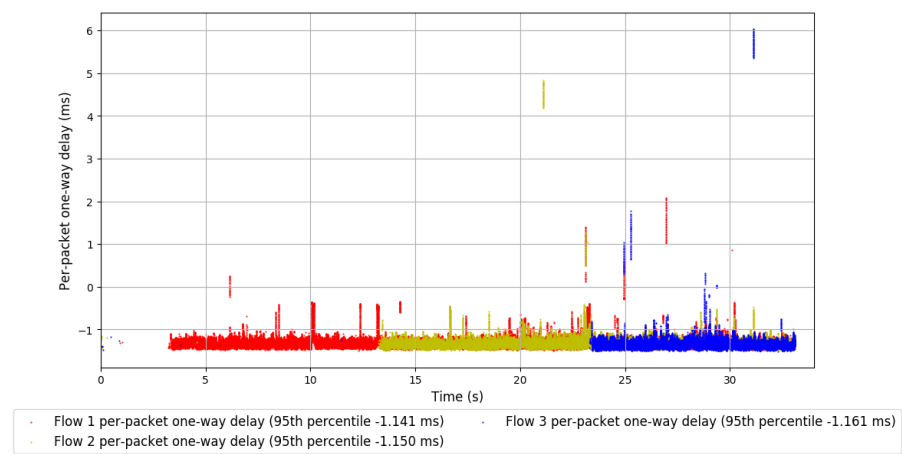
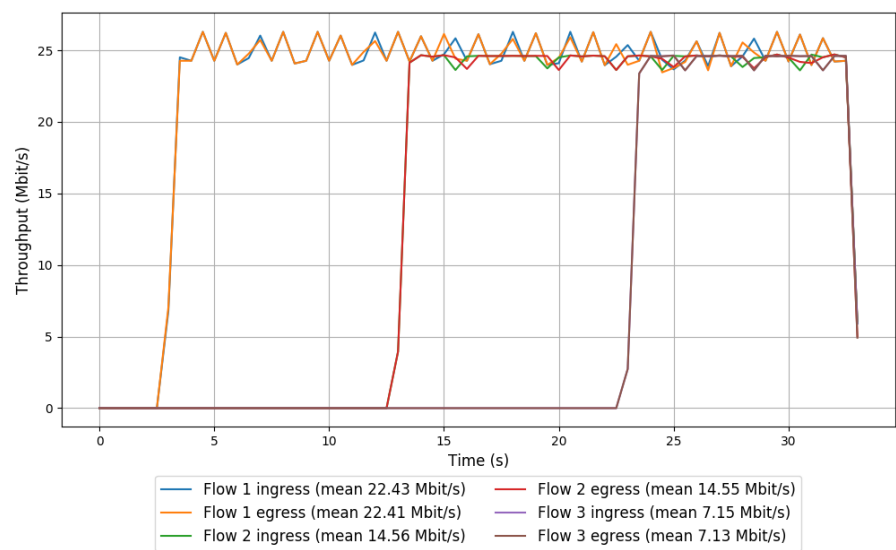
-- Flow 3:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: -1.161 ms

Loss rate: 0.21%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Sat, 01 Jul 2017 15:52:44 +0000

End at: Sat, 01 Jul 2017 15:53:14 +0000

Local clock offset: 0.437 ms

Remote clock offset: -2.212 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:23:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.29 Mbit/s

95th percentile per-packet one-way delay: -1.270 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: -1.263 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: -1.274 ms

Loss rate: 0.50%

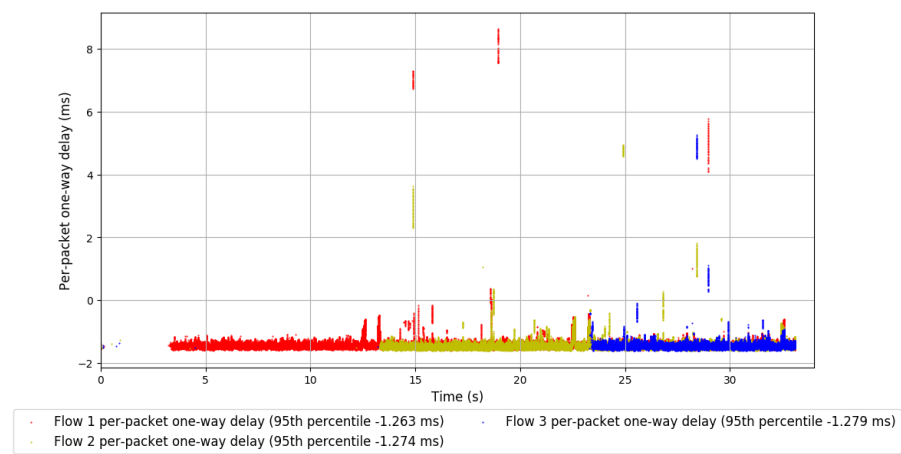
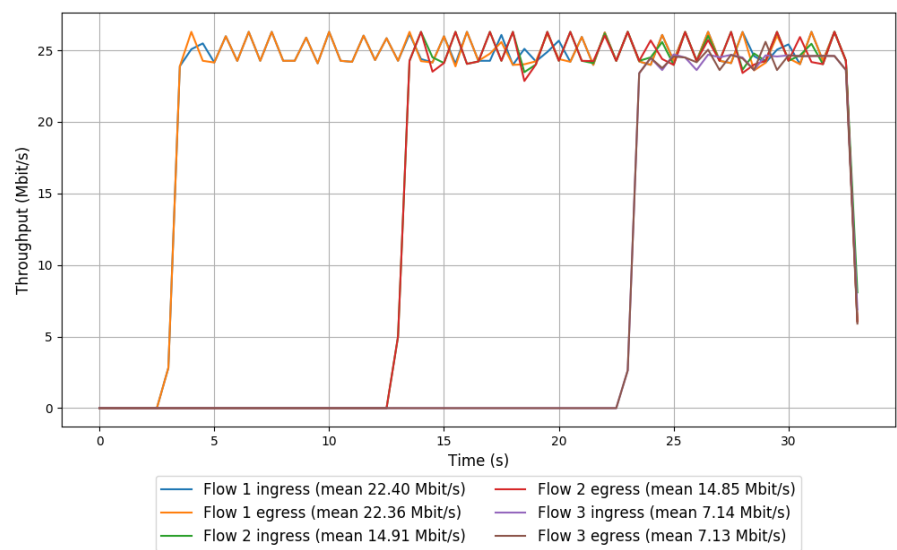
-- Flow 3:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: -1.279 ms

Loss rate: 0.22%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 12:50:20 +0000

End at: Sat, 01 Jul 2017 12:50:50 +0000

Local clock offset: -0.015 ms

Remote clock offset: -4.508 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:24:13 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 239.80 Mbit/s

95th percentile per-packet one-way delay: -2.055 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 138.51 Mbit/s

95th percentile per-packet one-way delay: -2.200 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 69.52 Mbit/s

95th percentile per-packet one-way delay: -1.719 ms

Loss rate: 1.80%

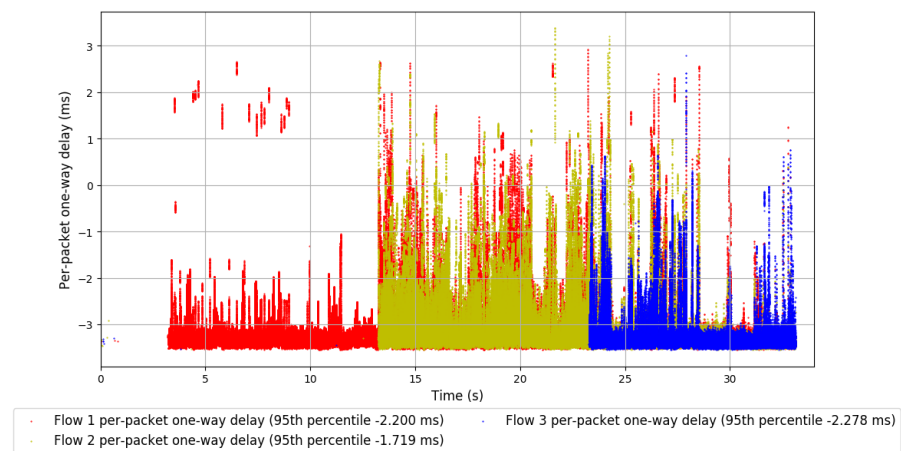
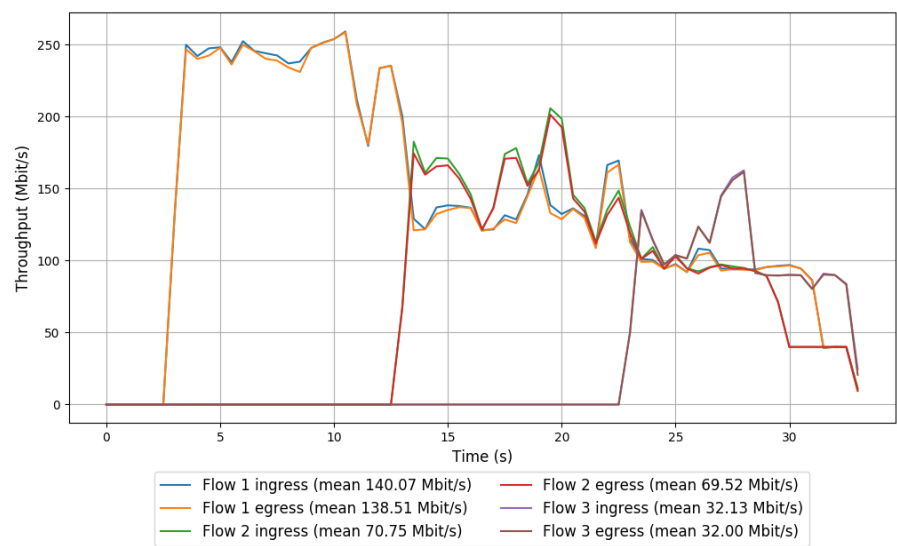
-- Flow 3:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: -2.278 ms

Loss rate: 0.44%

Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 13:11:11 +0000

End at: Sat, 01 Jul 2017 13:11:41 +0000

Local clock offset: 0.136 ms

Remote clock offset: -4.42 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:24:13 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 224.83 Mbit/s

95th percentile per-packet one-way delay: -2.115 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 129.07 Mbit/s

95th percentile per-packet one-way delay: -2.163 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: -1.704 ms

Loss rate: 1.50%

-- Flow 3:

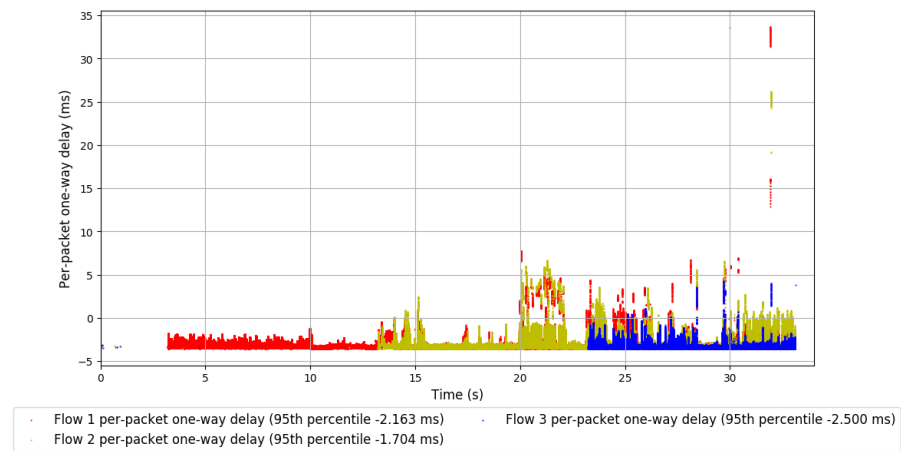
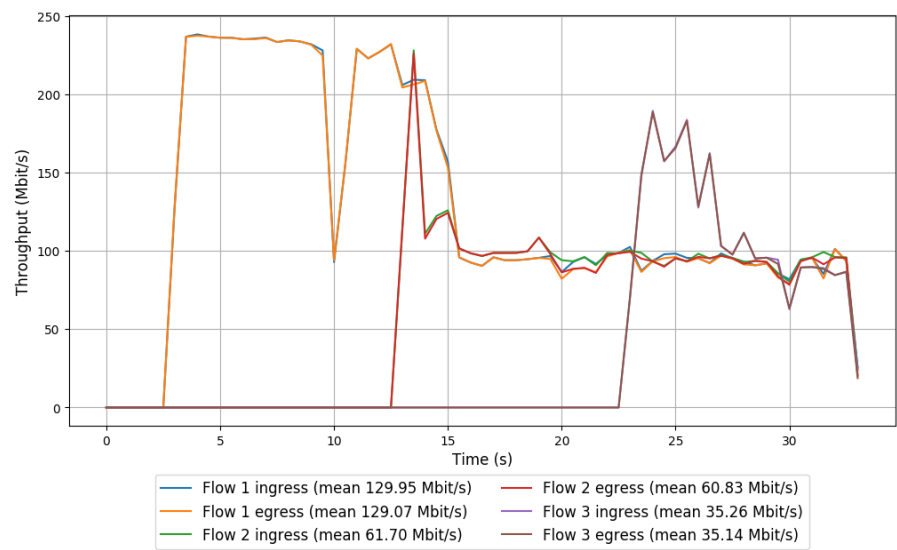
Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: -2.500 ms

Loss rate: 0.38%



Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 13:32:00 +0000

End at: Sat, 01 Jul 2017 13:32:30 +0000

Local clock offset: 0.157 ms

Remote clock offset: -4.866 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:25:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 235.49 Mbit/s

95th percentile per-packet one-way delay: -2.885 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 123.21 Mbit/s

95th percentile per-packet one-way delay: -2.763 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 99.09 Mbit/s

95th percentile per-packet one-way delay: -3.117 ms

Loss rate: 0.59%

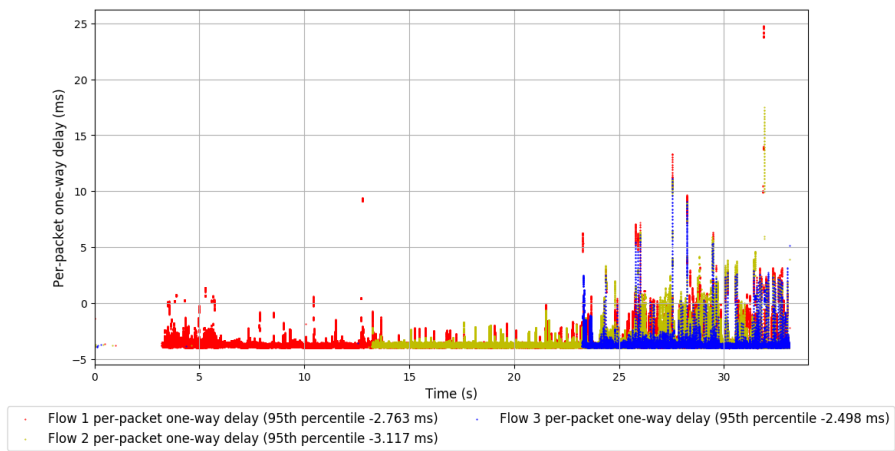
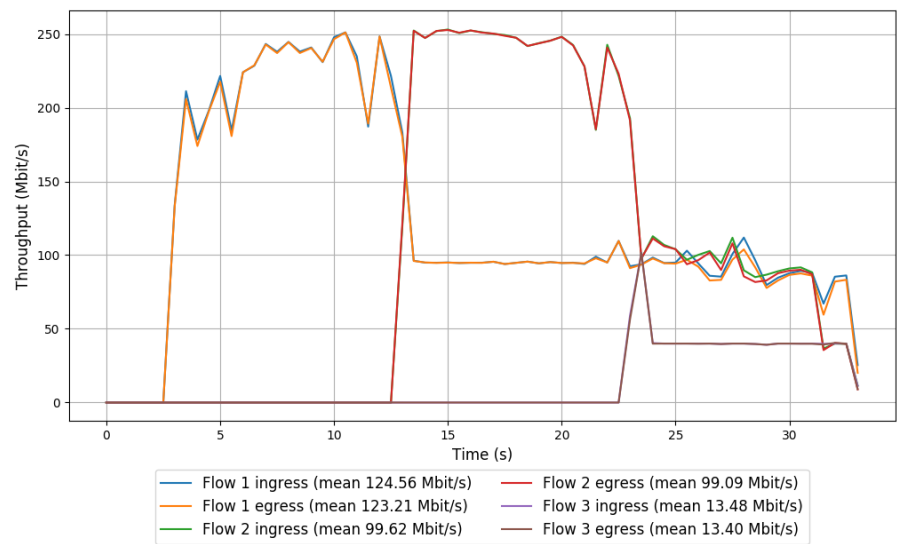
-- Flow 3:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: -2.498 ms

Loss rate: 0.65%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 13:52:49 +0000

End at: Sat, 01 Jul 2017 13:53:19 +0000

Local clock offset: 0.112 ms

Remote clock offset: -4.627 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:25:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 183.93 Mbit/s

95th percentile per-packet one-way delay: -2.769 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 66.65 Mbit/s

95th percentile per-packet one-way delay: -3.238 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: -3.218 ms

Loss rate: 0.98%

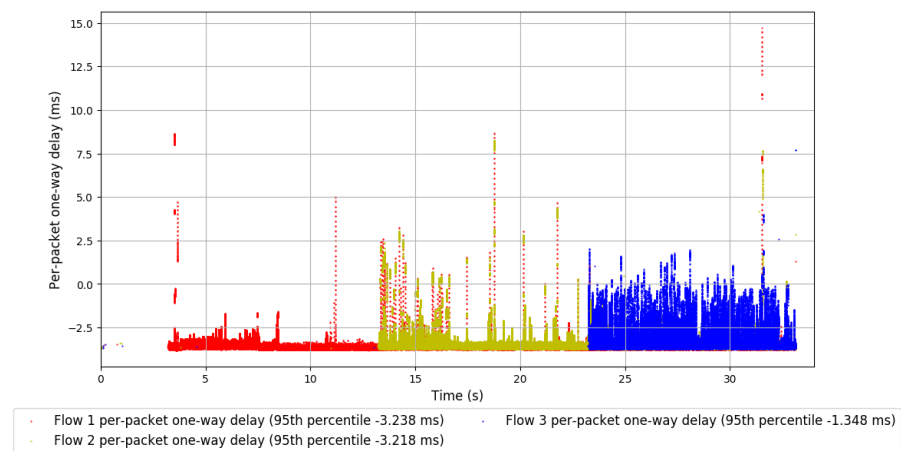
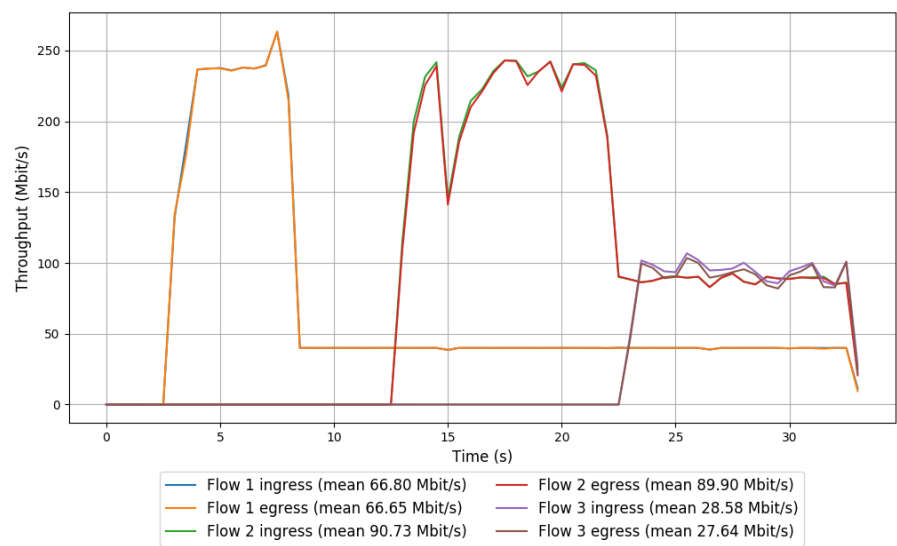
-- Flow 3:

Average throughput: 27.64 Mbit/s

95th percentile per-packet one-way delay: -1.348 ms

Loss rate: 3.35%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 14:13:32 +0000

End at: Sat, 01 Jul 2017 14:14:02 +0000

Local clock offset: 0.11 ms

Remote clock offset: -3.996 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:26:08 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 229.63 Mbit/s

95th percentile per-packet one-way delay: -1.329 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 128.72 Mbit/s

95th percentile per-packet one-way delay: -1.567 ms

Loss rate: 1.92%

-- Flow 2:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: -1.244 ms

Loss rate: 2.43%

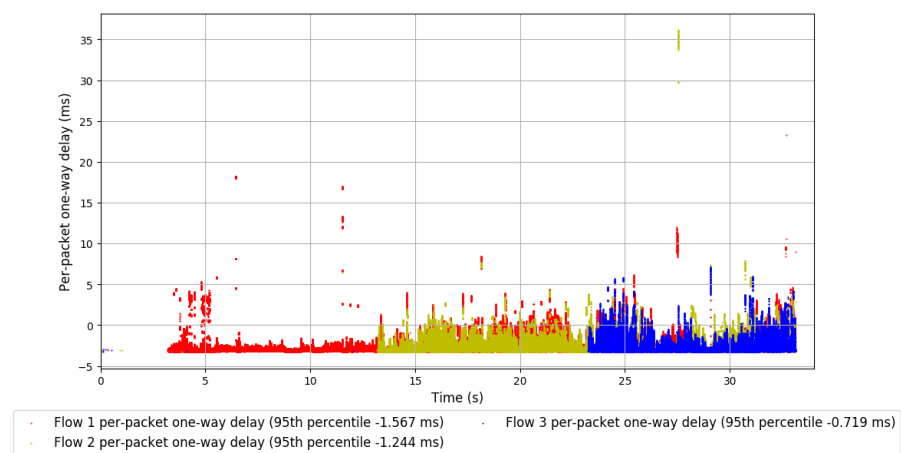
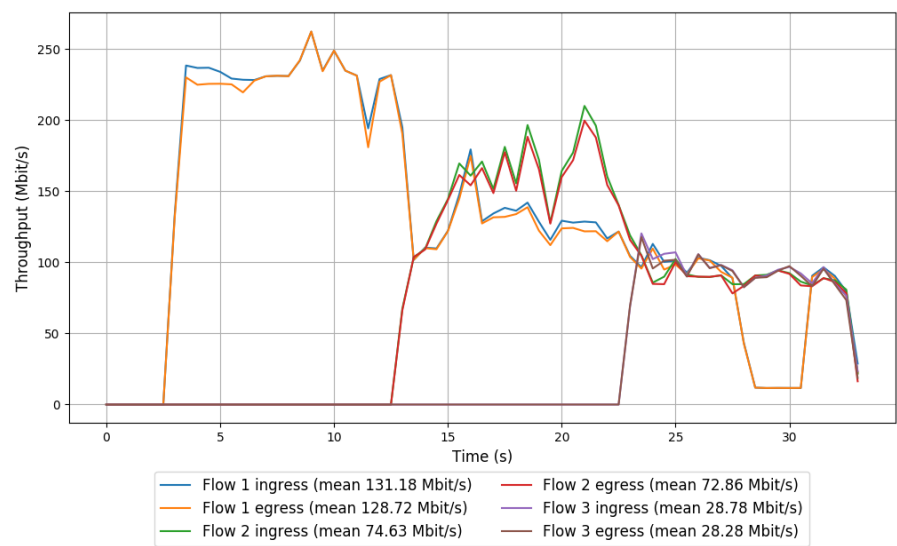
-- Flow 3:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: -0.719 ms

Loss rate: 1.80%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 14:34:13 +0000

End at: Sat, 01 Jul 2017 14:34:43 +0000

Local clock offset: 0.096 ms

Remote clock offset: -3.917 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:26:12 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 233.27 Mbit/s

95th percentile per-packet one-way delay: -2.405 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 131.23 Mbit/s

95th percentile per-packet one-way delay: -2.437 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: -2.571 ms

Loss rate: 0.43%

-- Flow 3:

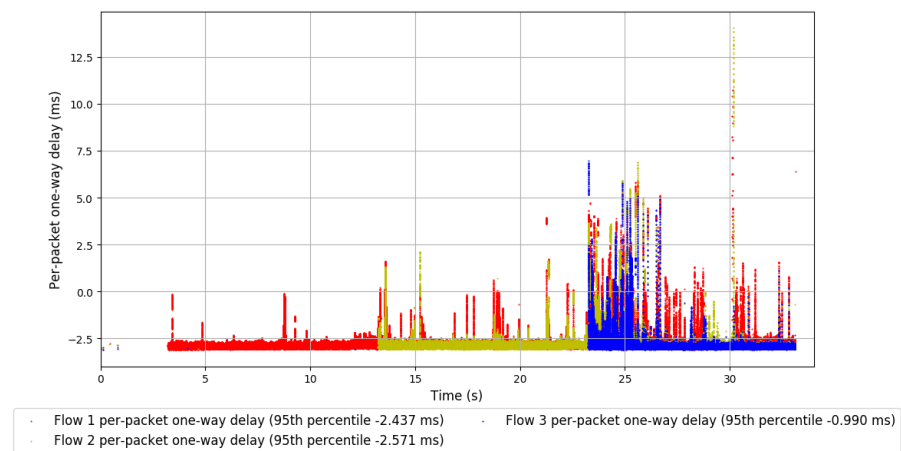
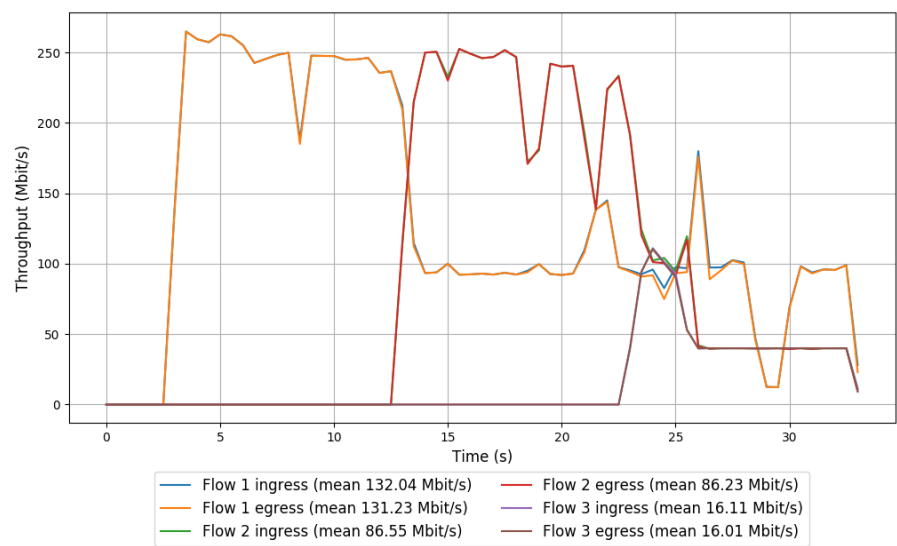
Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: -0.990 ms

Loss rate: 0.70%



Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 14:54:56 +0000

End at: Sat, 01 Jul 2017 14:55:26 +0000

Local clock offset: 0.024 ms

Remote clock offset: -3.299 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:26:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 204.54 Mbit/s

95th percentile per-packet one-way delay: -1.209 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 128.72 Mbit/s

95th percentile per-packet one-way delay: -1.176 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: -1.081 ms

Loss rate: 0.58%

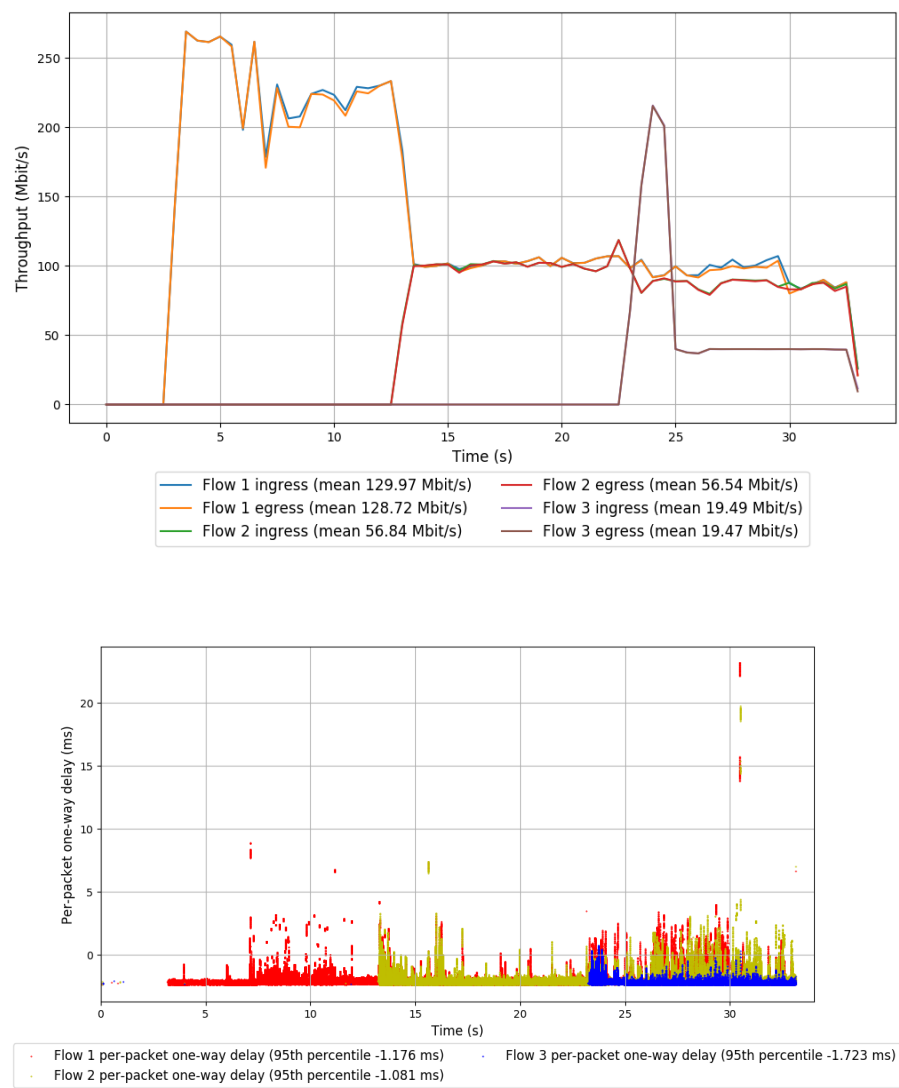
-- Flow 3:

Average throughput: 19.47 Mbit/s

95th percentile per-packet one-way delay: -1.723 ms

Loss rate: 0.17%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 15:15:29 +0000

End at: Sat, 01 Jul 2017 15:15:59 +0000

Local clock offset: 0.178 ms

Remote clock offset: -2.33 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:27:14 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 238.97 Mbit/s

95th percentile per-packet one-way delay: 0.054 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 138.29 Mbit/s

95th percentile per-packet one-way delay: -0.114 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 0.430 ms

Loss rate: 2.33%

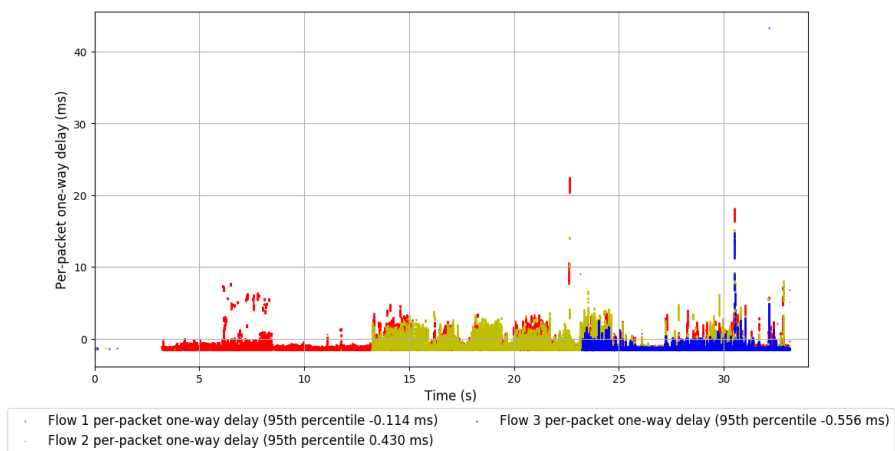
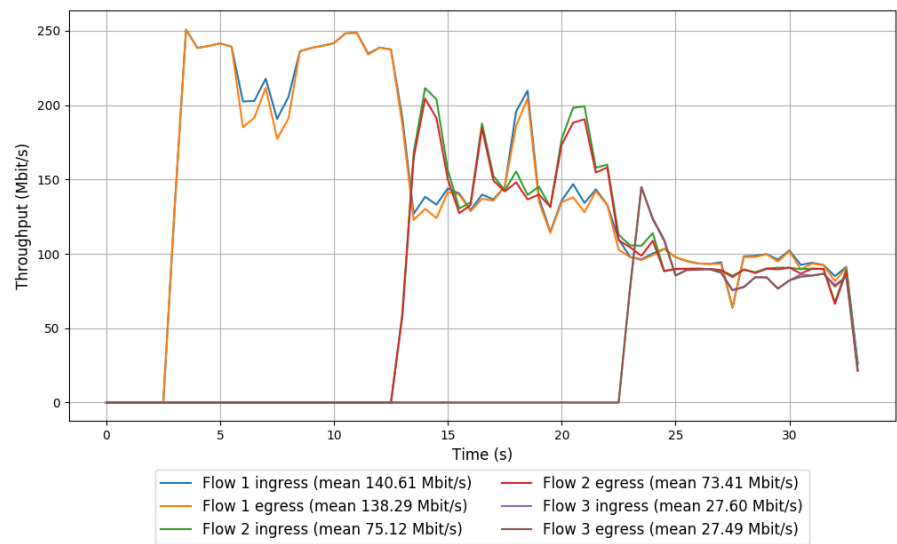
-- Flow 3:

Average throughput: 27.49 Mbit/s

95th percentile per-packet one-way delay: -0.556 ms

Loss rate: 0.44%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 15:36:13 +0000

End at: Sat, 01 Jul 2017 15:36:43 +0000

Local clock offset: 0.354 ms

Remote clock offset: -2.211 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:27:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 239.50 Mbit/s

95th percentile per-packet one-way delay: 0.411 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 144.50 Mbit/s

95th percentile per-packet one-way delay: 0.116 ms

Loss rate: 2.17%

-- Flow 2:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 3.48%

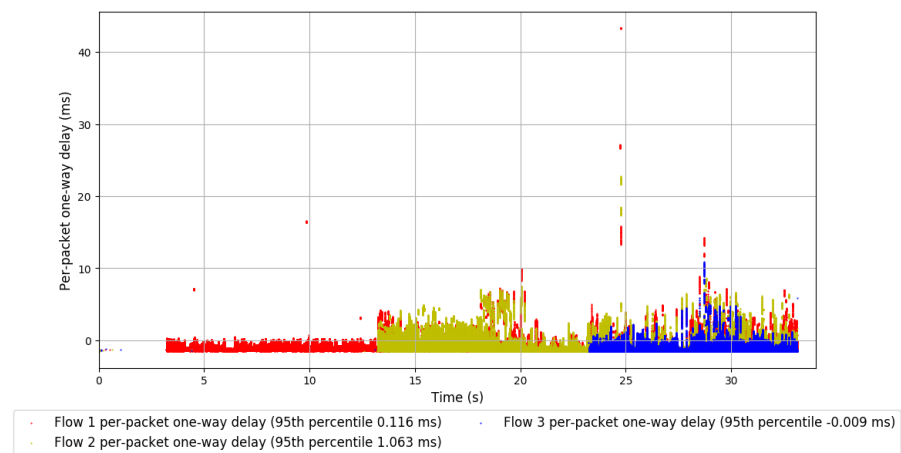
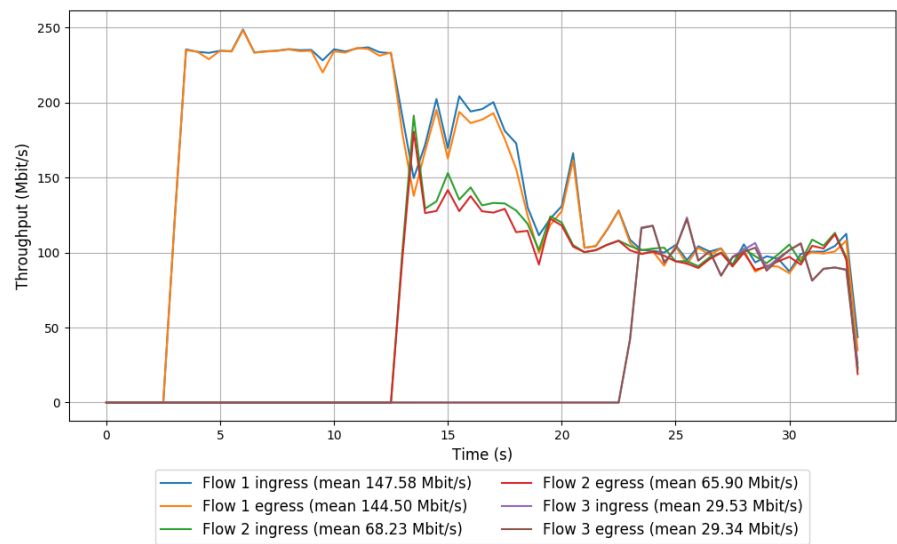
-- Flow 3:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: -0.009 ms

Loss rate: 0.71%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 15:57:02 +0000

End at: Sat, 01 Jul 2017 15:57:32 +0000

Local clock offset: 0.357 ms

Remote clock offset: -2.149 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:28:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 249.69 Mbit/s

95th percentile per-packet one-way delay: -0.072 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 140.75 Mbit/s

95th percentile per-packet one-way delay: -0.121 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 0.019 ms

Loss rate: 1.49%

-- Flow 3:

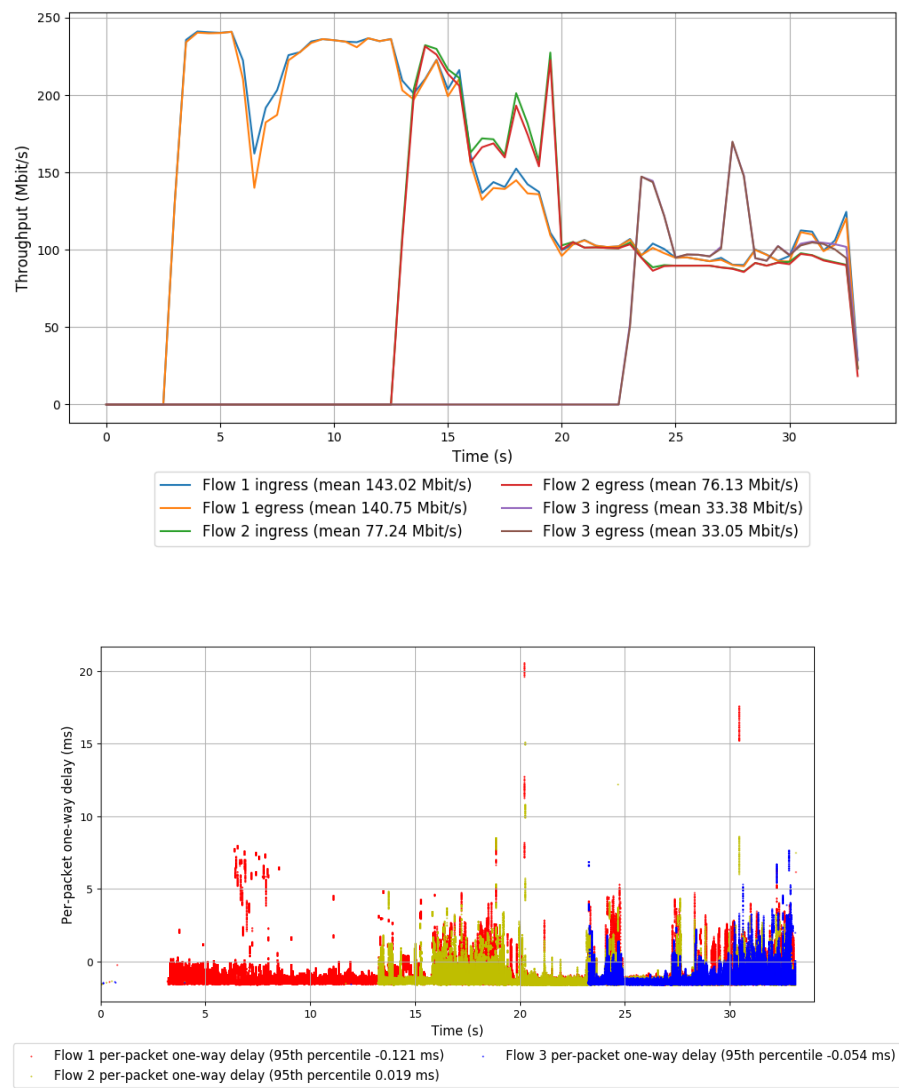
Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: -0.054 ms

Loss rate: 1.05%



Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 12:40:42 +0000

End at: Sat, 01 Jul 2017 12:41:12 +0000

Local clock offset: 0.062 ms

Remote clock offset: -4.603 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:28:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 149.28 Mbit/s

95th percentile per-packet one-way delay: -3.235 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 78.37 Mbit/s

95th percentile per-packet one-way delay: -3.229 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: -3.242 ms

Loss rate: 0.53%

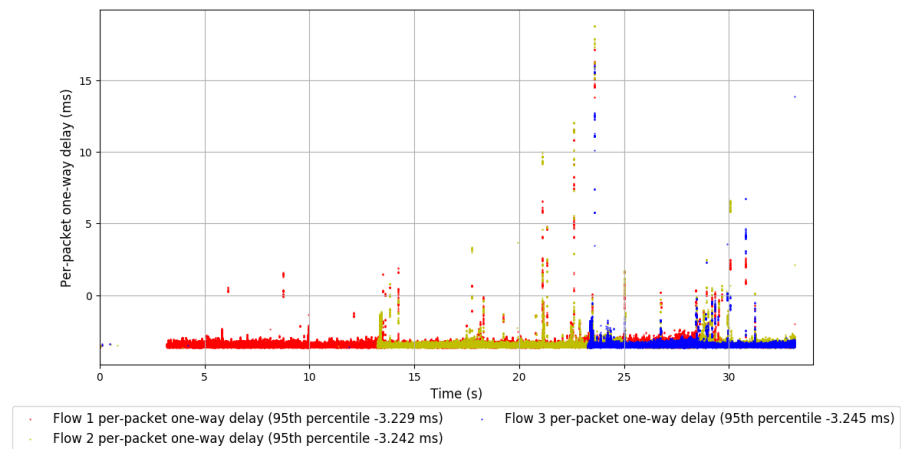
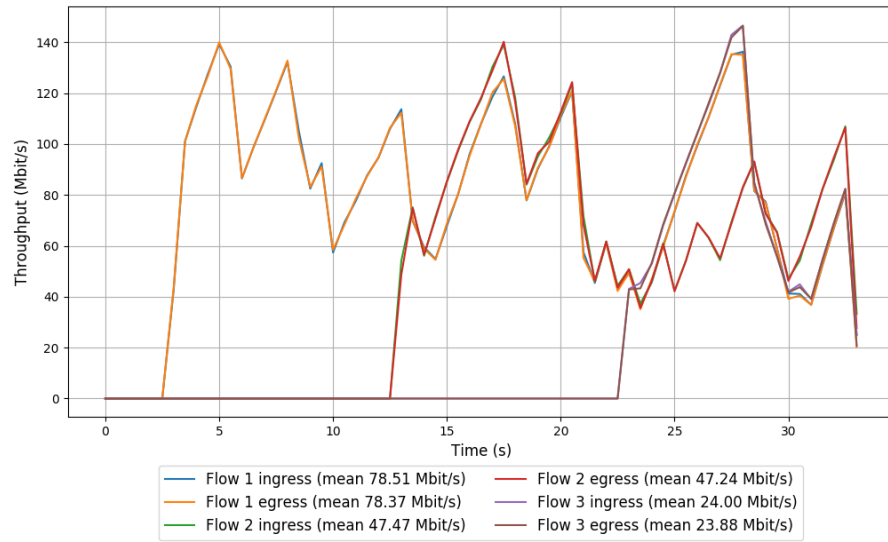
-- Flow 3:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: -3.245 ms

Loss rate: 0.50%

## Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 13:01:33 +0000

End at: Sat, 01 Jul 2017 13:02:03 +0000

Local clock offset: -0.01 ms

Remote clock offset: -4.236 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:28:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 156.73 Mbit/s

95th percentile per-packet one-way delay: -2.907 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 84.79 Mbit/s

95th percentile per-packet one-way delay: -2.982 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: -2.860 ms

Loss rate: 0.34%

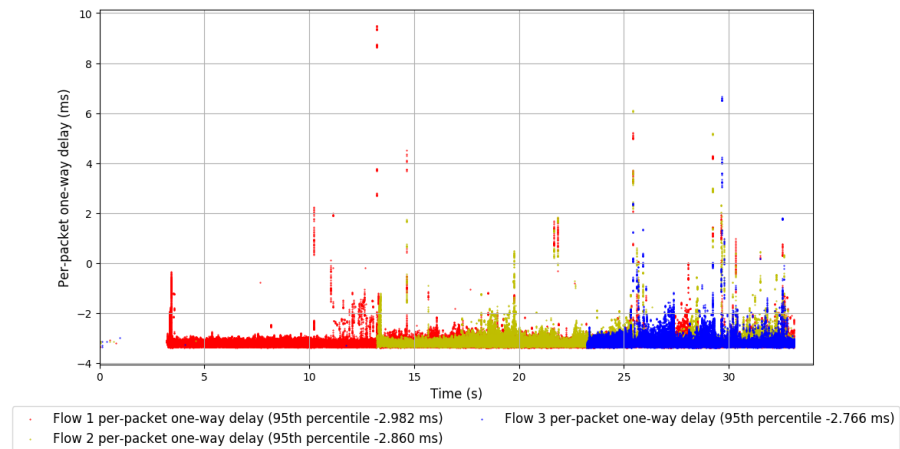
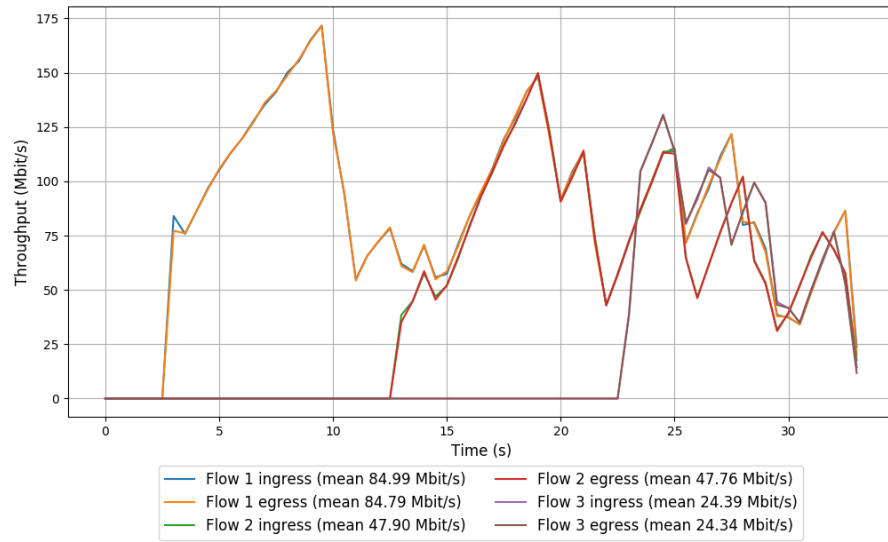
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: -2.766 ms

Loss rate: 0.26%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 13:22:17 +0000

End at: Sat, 01 Jul 2017 13:22:47 +0000

Local clock offset: 0.162 ms

Remote clock offset: -4.611 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:28:58 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 209.23 Mbit/s

95th percentile per-packet one-way delay: -3.309 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 104.01 Mbit/s

95th percentile per-packet one-way delay: -3.365 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: -3.347 ms

Loss rate: 0.17%

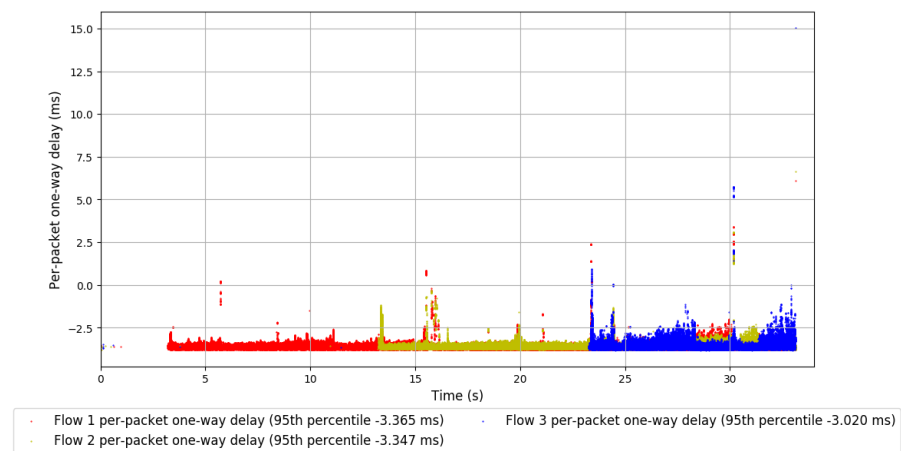
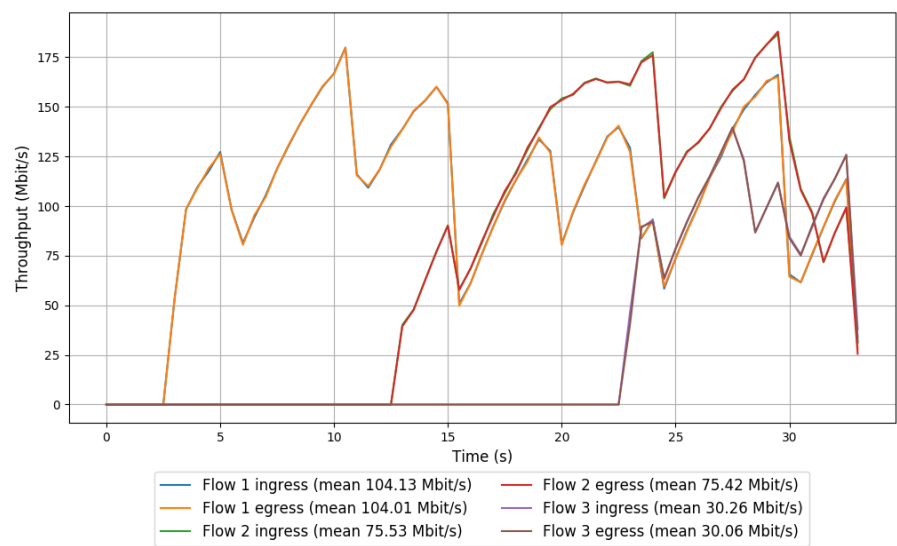
-- Flow 3:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: -3.020 ms

Loss rate: 0.69%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 13:43:10 +0000

End at: Sat, 01 Jul 2017 13:43:40 +0000

Local clock offset: 0.166 ms

Remote clock offset: -4.904 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:29:13 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.63 Mbit/s

95th percentile per-packet one-way delay: -3.551 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: -3.582 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 62.28 Mbit/s

95th percentile per-packet one-way delay: -3.531 ms

Loss rate: 0.22%

-- Flow 3:

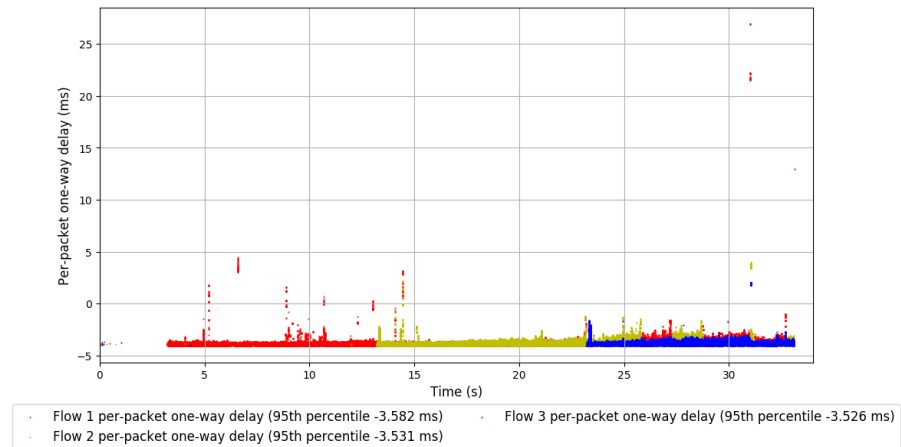
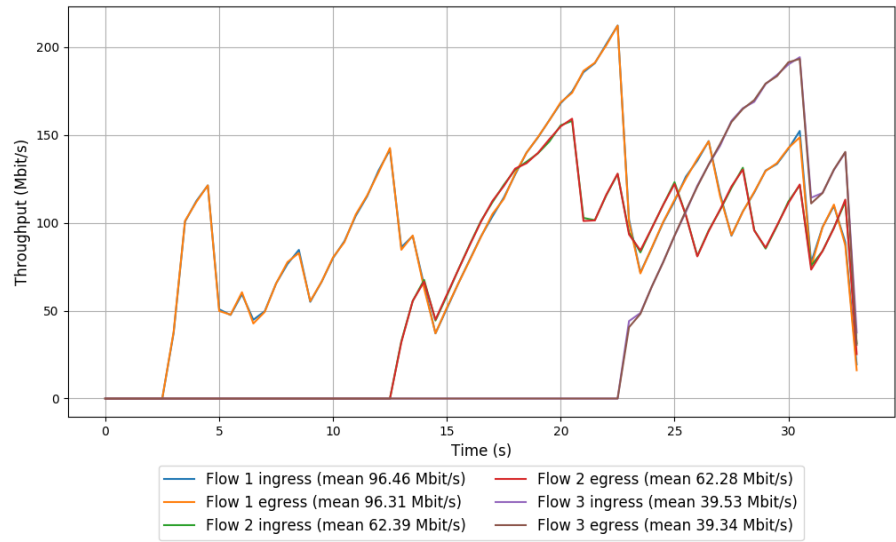
Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: -3.526 ms

Loss rate: 0.48%



# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:03:56 +0000

End at: Sat, 01 Jul 2017 14:04:27 +0000

Local clock offset: 0.201 ms

Remote clock offset: -4.388 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:29:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 176.09 Mbit/s

95th percentile per-packet one-way delay: -3.034 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: -3.031 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 59.52 Mbit/s

95th percentile per-packet one-way delay: -3.050 ms

Loss rate: 0.22%

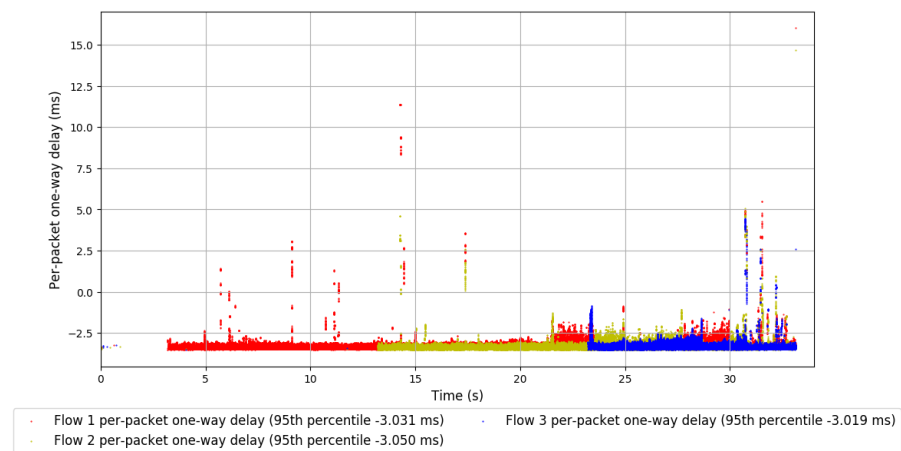
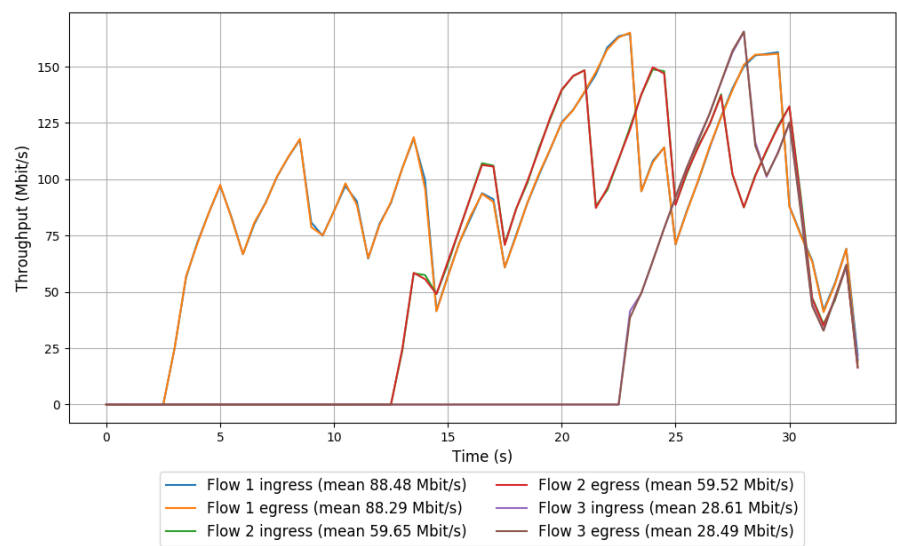
-- Flow 3:

Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: -3.019 ms

Loss rate: 0.48%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:24:33 +0000

End at: Sat, 01 Jul 2017 14:25:03 +0000

Local clock offset: 0.227 ms

Remote clock offset: -3.99 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:29:39 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 181.81 Mbit/s

95th percentile per-packet one-way delay: -2.653 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: -2.738 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: -2.493 ms

Loss rate: 0.41%

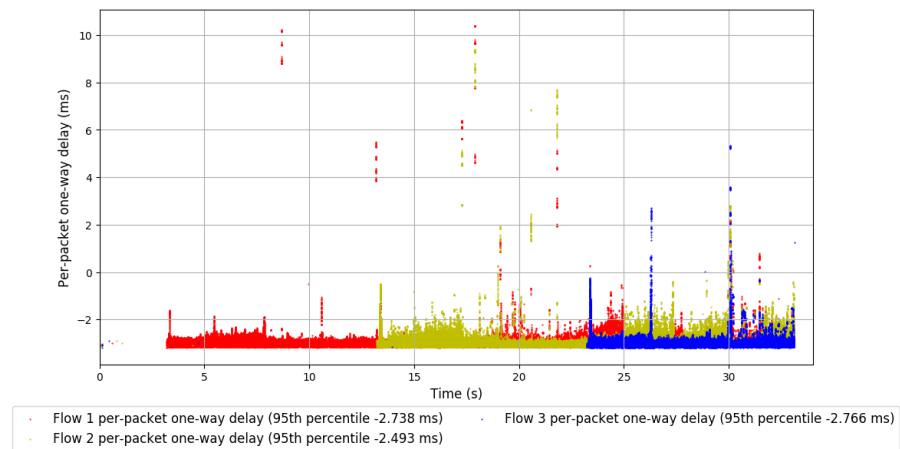
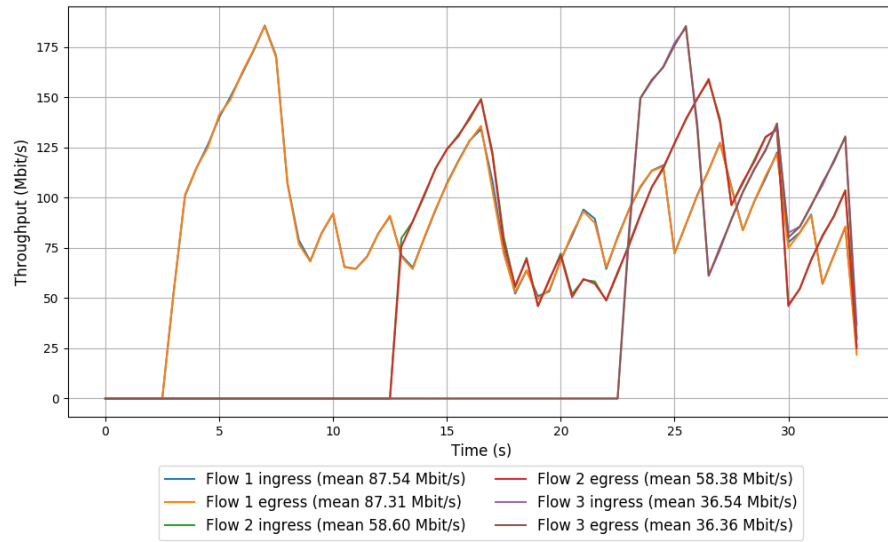
-- Flow 3:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: -2.766 ms

Loss rate: 0.54%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:45:15 +0000

End at: Sat, 01 Jul 2017 14:45:45 +0000

Local clock offset: 0.01 ms

Remote clock offset: -3.515 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:29:49 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 157.28 Mbit/s

95th percentile per-packet one-way delay: -2.127 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: -2.156 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: -2.050 ms

Loss rate: 0.53%

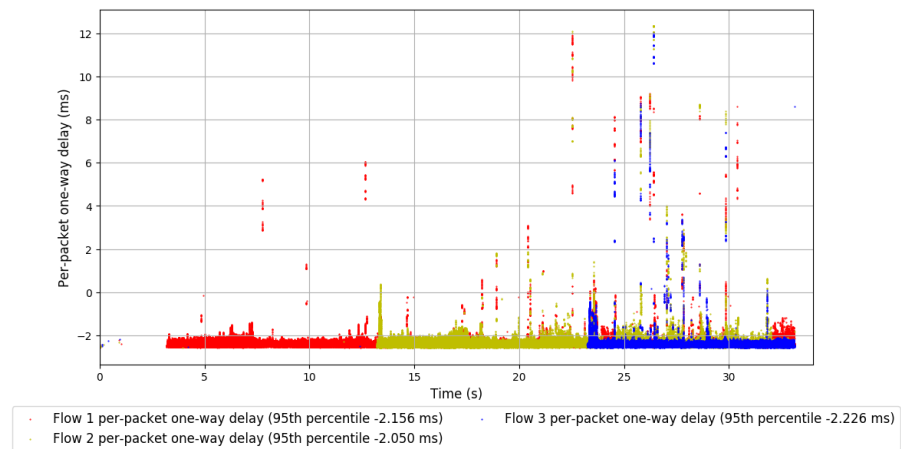
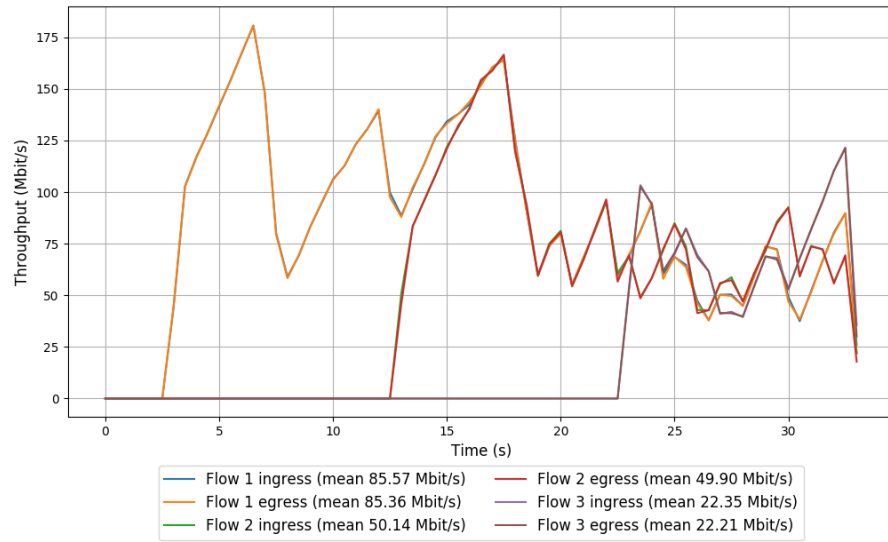
-- Flow 3:

Average throughput: 22.21 Mbit/s

95th percentile per-packet one-way delay: -2.226 ms

Loss rate: 0.65%

## Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 15:05:55 +0000

End at: Sat, 01 Jul 2017 15:06:25 +0000

Local clock offset: 0.194 ms

Remote clock offset: -2.823 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:30:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 177.11 Mbit/s

95th percentile per-packet one-way delay: -1.490 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: -1.515 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 59.18 Mbit/s

95th percentile per-packet one-way delay: -1.442 ms

Loss rate: 0.48%

-- Flow 3:

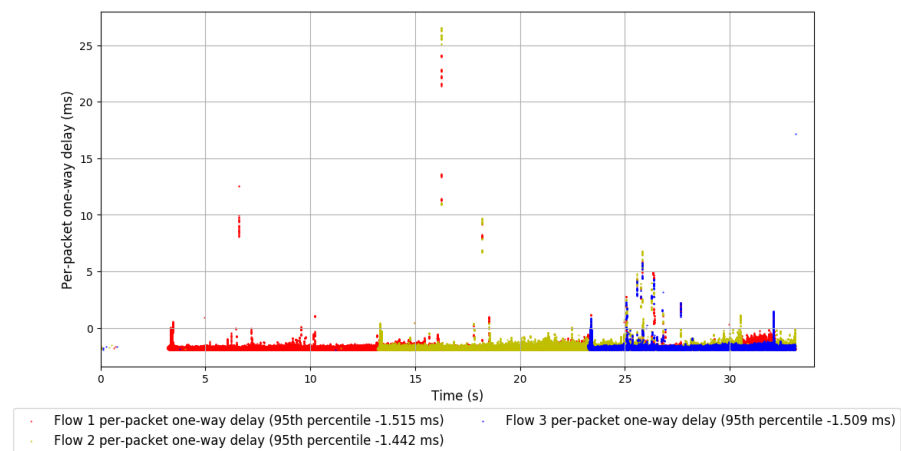
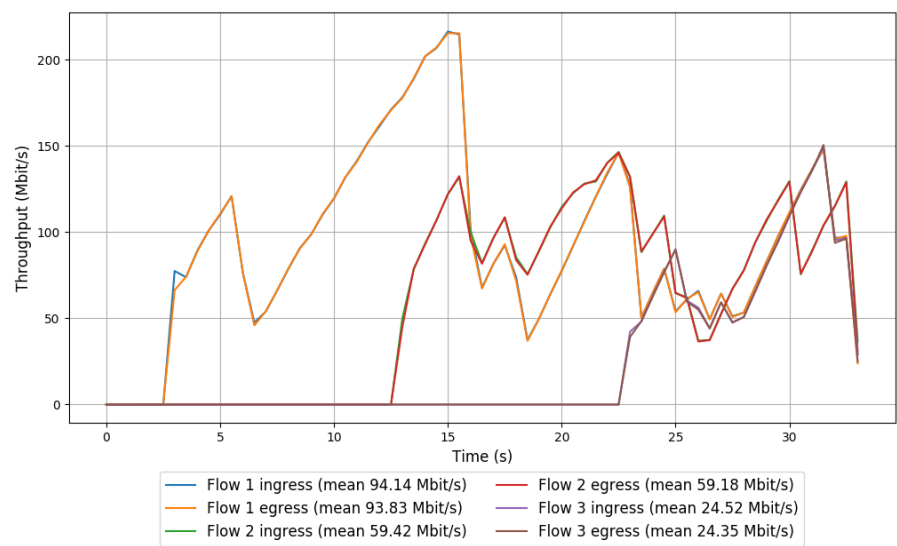
Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: -1.509 ms

Loss rate: 0.65%



Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 15:26:35 +0000

End at: Sat, 01 Jul 2017 15:27:05 +0000

Local clock offset: 0.294 ms

Remote clock offset: -2.183 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:30:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 171.33 Mbit/s

95th percentile per-packet one-way delay: -1.004 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: -1.023 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: -0.958 ms

Loss rate: 0.33%

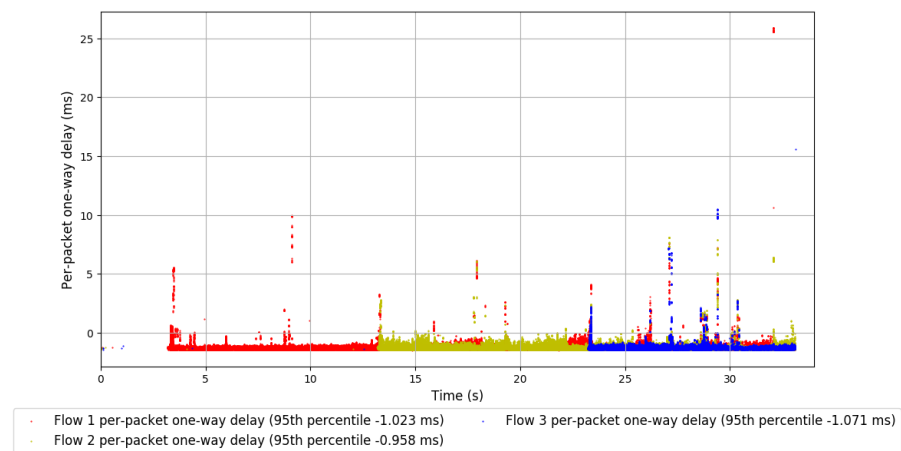
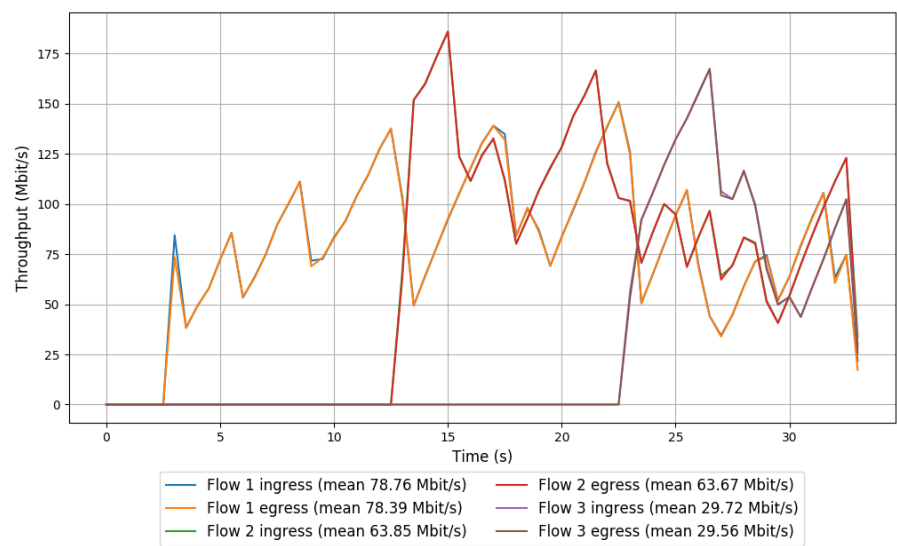
-- Flow 3:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: -1.071 ms

Loss rate: 0.56%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 15:47:20 +0000

End at: Sat, 01 Jul 2017 15:47:50 +0000

Local clock offset: 0.337 ms

Remote clock offset: -2.233 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:30:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 196.13 Mbit/s

95th percentile per-packet one-way delay: -1.174 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: -1.233 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: -1.185 ms

Loss rate: 0.26%

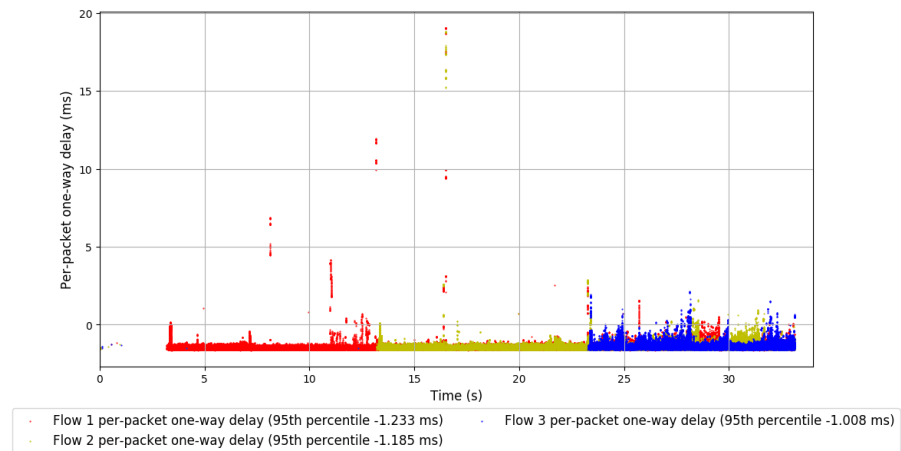
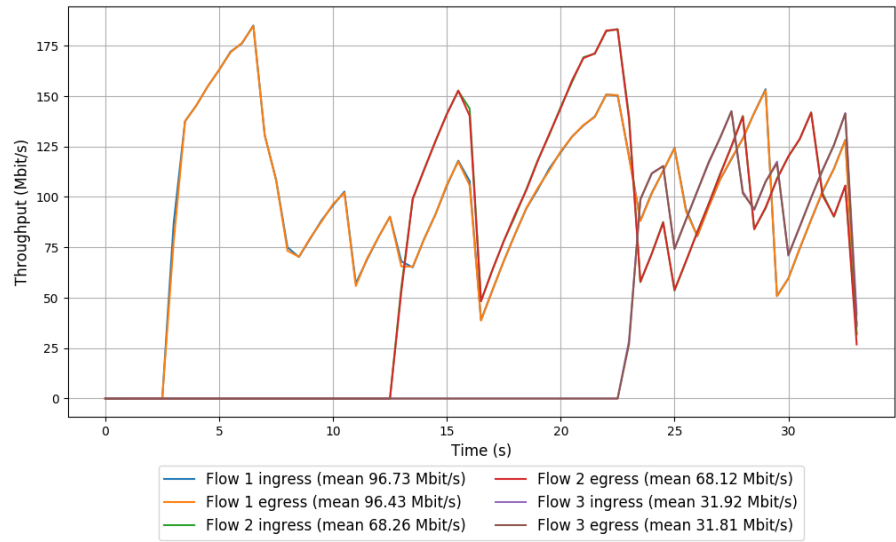
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: -1.008 ms

Loss rate: 0.41%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sat, 01 Jul 2017 12:42:00 +0000

End at: Sat, 01 Jul 2017 12:42:30 +0000

Local clock offset: 0.065 ms

Remote clock offset: -4.641 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:30:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 179.38 Mbit/s

95th percentile per-packet one-way delay: 2.286 ms

Loss rate: 38.94%

-- Flow 1:

Average throughput: 98.31 Mbit/s

95th percentile per-packet one-way delay: 2.489 ms

Loss rate: 43.32%

-- Flow 2:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 1.777 ms

Loss rate: 30.31%

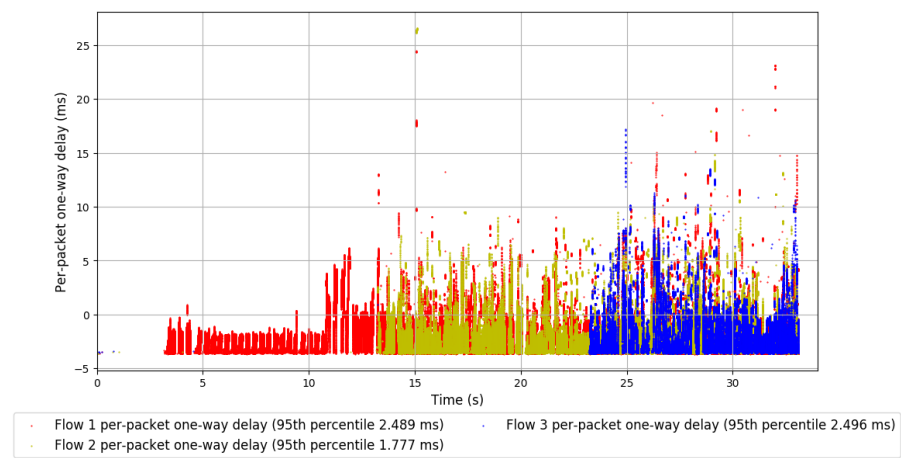
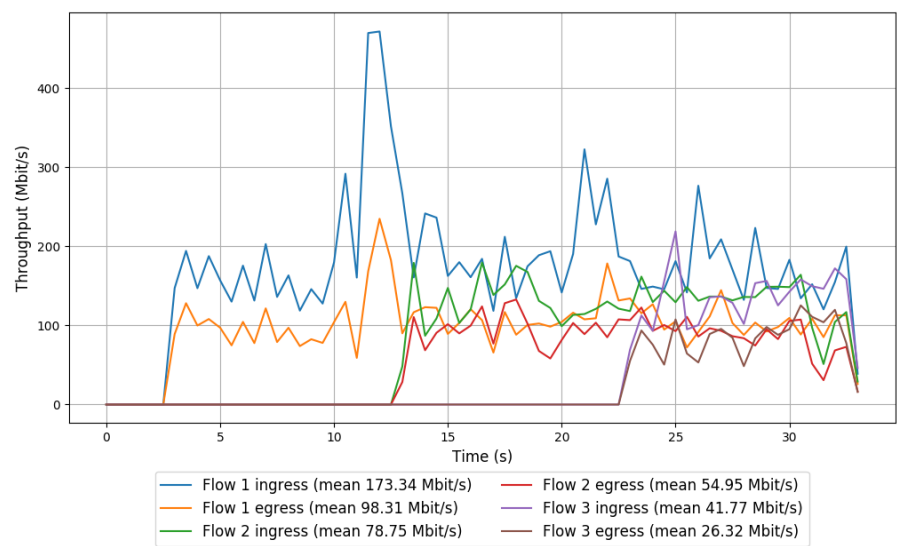
-- Flow 3:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 2.496 ms

Loss rate: 37.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Sat, 01 Jul 2017 13:02:52 +0000

End at: Sat, 01 Jul 2017 13:03:22 +0000

Local clock offset: -0.001 ms

Remote clock offset: -4.332 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:31:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 187.25 Mbit/s

95th percentile per-packet one-way delay: 1.293 ms

Loss rate: 32.85%

-- Flow 1:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 0.554 ms

Loss rate: 29.35%

-- Flow 2:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 1.504 ms

Loss rate: 36.40%

-- Flow 3:

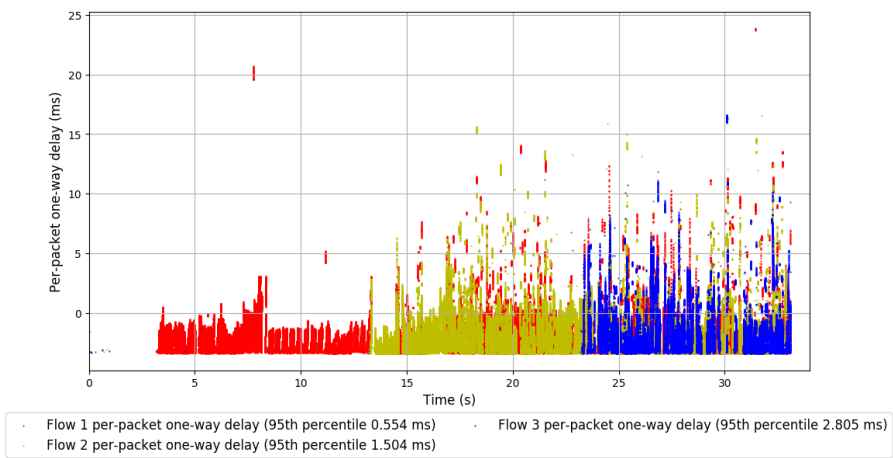
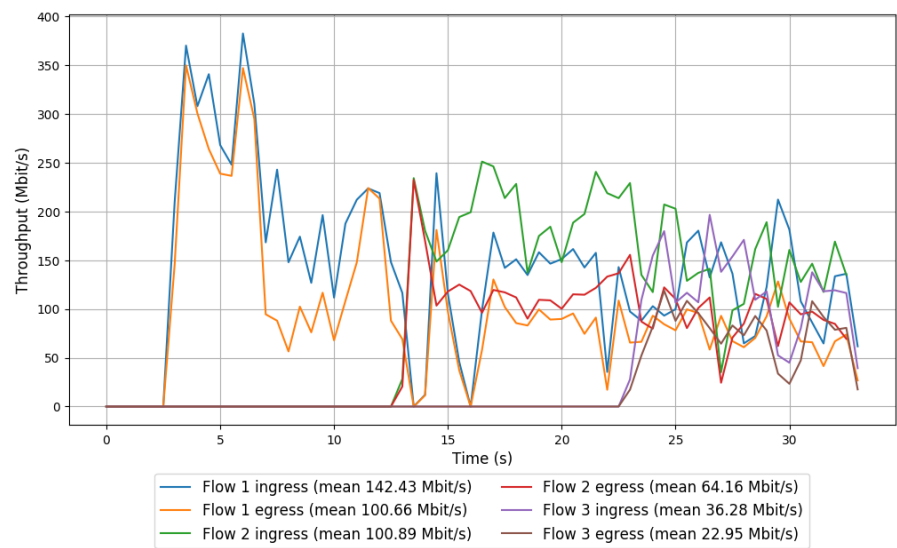
Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 2.805 ms

Loss rate: 36.79%



Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Sat, 01 Jul 2017 13:23:39 +0000

End at: Sat, 01 Jul 2017 13:24:09 +0000

Local clock offset: 0.144 ms

Remote clock offset: -4.66 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:31:14 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 179.78 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 35.46%

-- Flow 1:

Average throughput: 99.41 Mbit/s

95th percentile per-packet one-way delay: 0.285 ms

Loss rate: 33.04%

-- Flow 2:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 36.45%

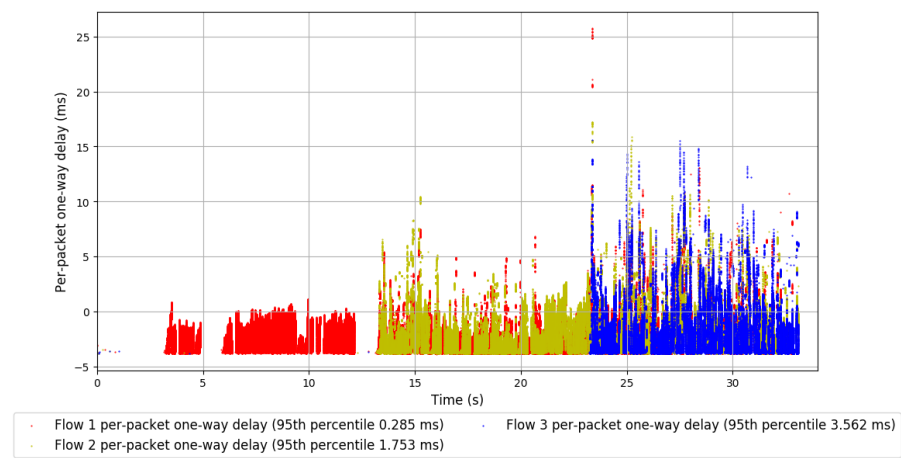
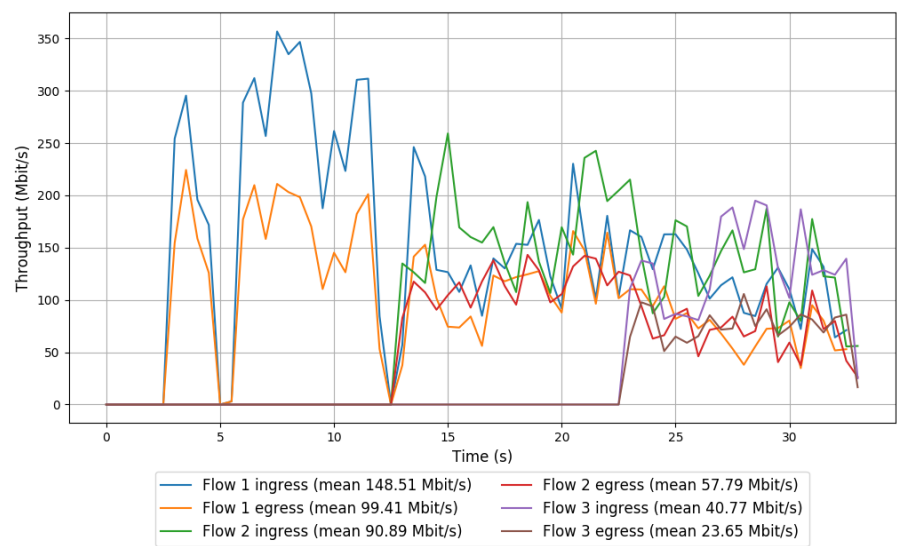
-- Flow 3:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 3.562 ms

Loss rate: 41.98%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Sat, 01 Jul 2017 13:44:31 +0000

End at: Sat, 01 Jul 2017 13:45:01 +0000

Local clock offset: 0.17 ms

Remote clock offset: -4.9 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:31:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 175.77 Mbit/s

95th percentile per-packet one-way delay: 0.545 ms

Loss rate: 35.68%

-- Flow 1:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 0.375 ms

Loss rate: 40.15%

-- Flow 2:

Average throughput: 64.81 Mbit/s

95th percentile per-packet one-way delay: 0.526 ms

Loss rate: 28.45%

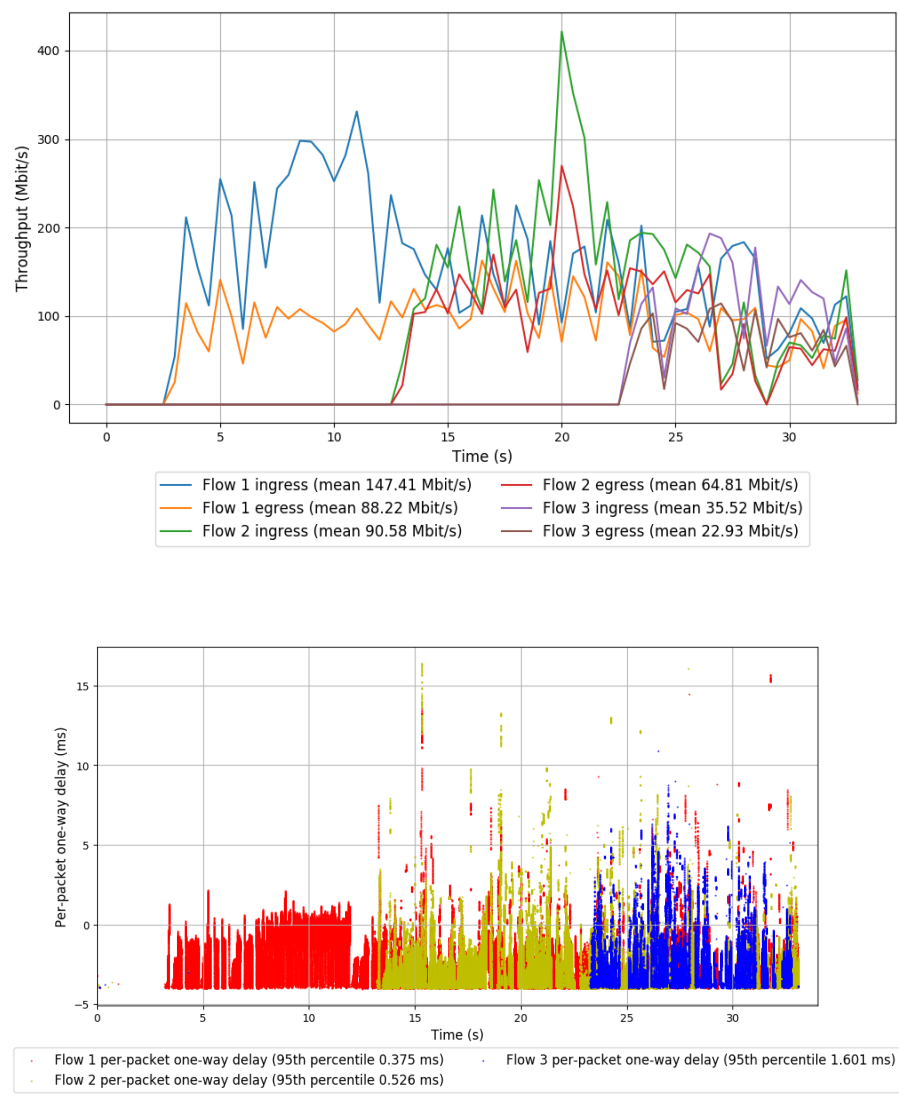
-- Flow 3:

Average throughput: 22.93 Mbit/s

95th percentile per-packet one-way delay: 1.601 ms

Loss rate: 35.51%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Sat, 01 Jul 2017 14:05:17 +0000

End at: Sat, 01 Jul 2017 14:05:47 +0000

Local clock offset: 0.116 ms

Remote clock offset: -4.301 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:31:42 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 158.89 Mbit/s

95th percentile per-packet one-way delay: 1.806 ms

Loss rate: 39.66%

-- Flow 1:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 1.848 ms

Loss rate: 46.33%

-- Flow 2:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 1.737 ms

Loss rate: 31.05%

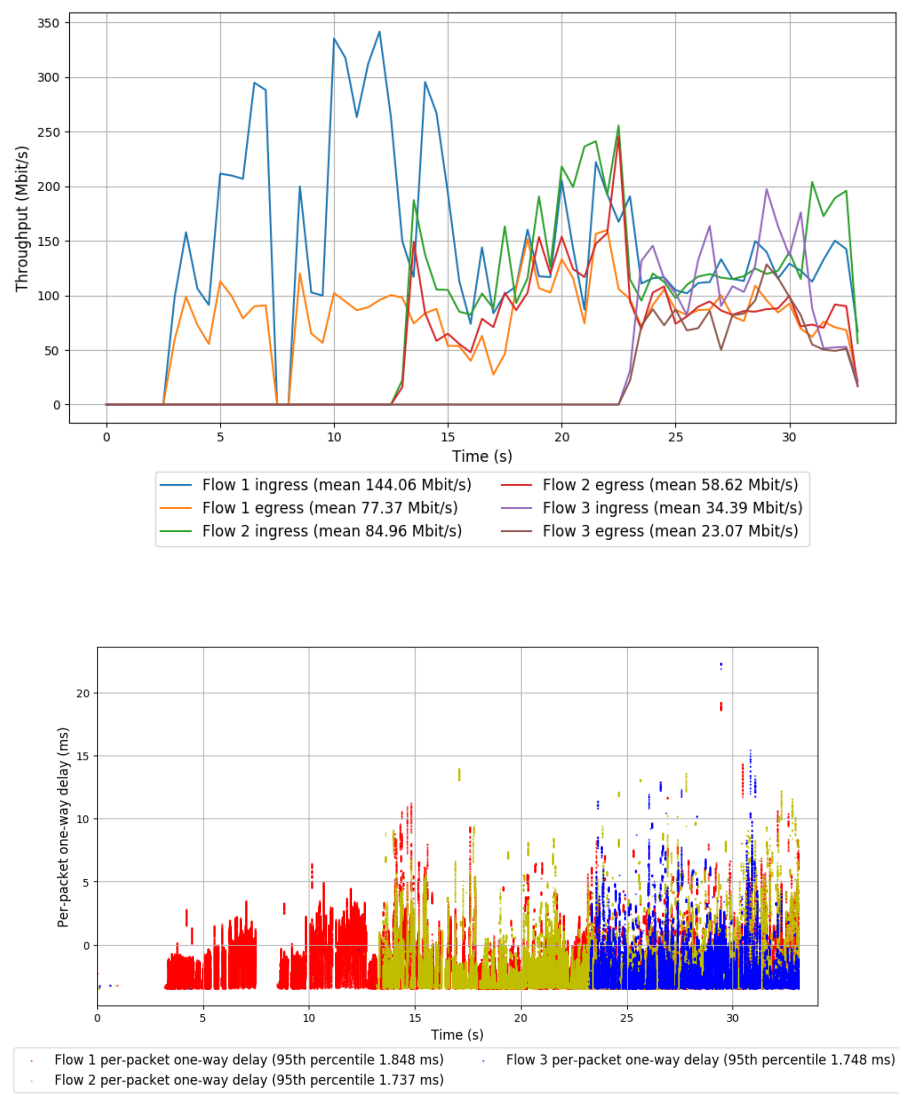
-- Flow 3:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 1.748 ms

Loss rate: 32.97%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Sat, 01 Jul 2017 14:25:53 +0000

End at: Sat, 01 Jul 2017 14:26:23 +0000

Local clock offset: 0.133 ms

Remote clock offset: -3.933 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:31:59 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 160.13 Mbit/s

95th percentile per-packet one-way delay: 3.442 ms

Loss rate: 46.86%

-- Flow 1:

Average throughput: 89.08 Mbit/s

95th percentile per-packet one-way delay: 3.676 ms

Loss rate: 50.58%

-- Flow 2:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 3.365 ms

Loss rate: 45.70%

-- Flow 3:

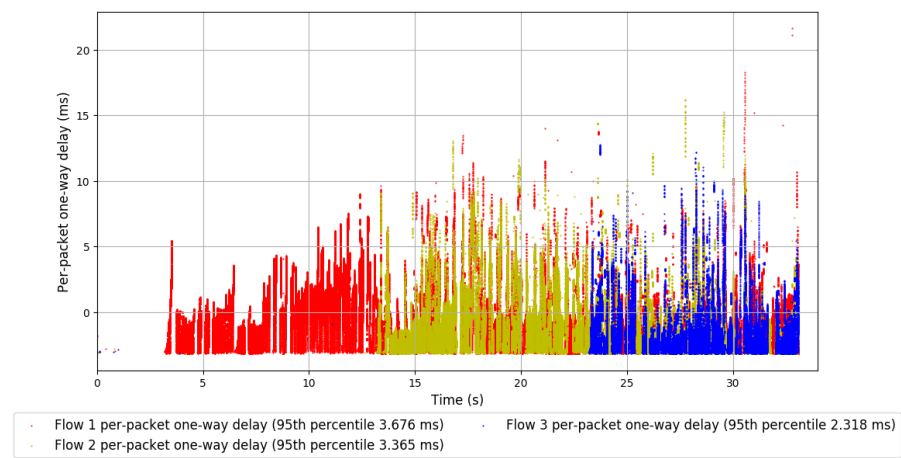
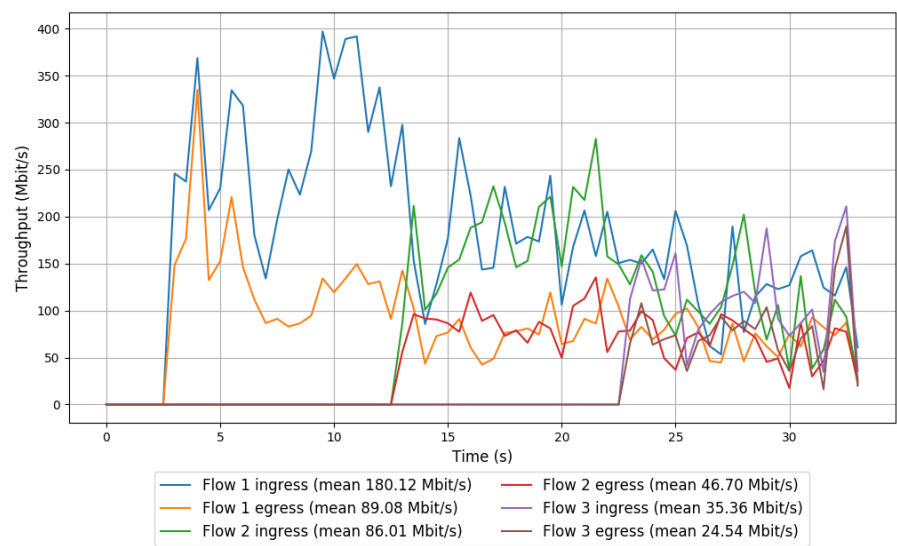
Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 2.318 ms

Loss rate: 30.69%



Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Sat, 01 Jul 2017 14:46:34 +0000

End at: Sat, 01 Jul 2017 14:47:04 +0000

Local clock offset: 0.019 ms

Remote clock offset: -3.496 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:32:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 2.307 ms

Loss rate: 36.78%

-- Flow 1:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 1.822 ms

Loss rate: 36.88%

-- Flow 2:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 3.131 ms

Loss rate: 42.95%

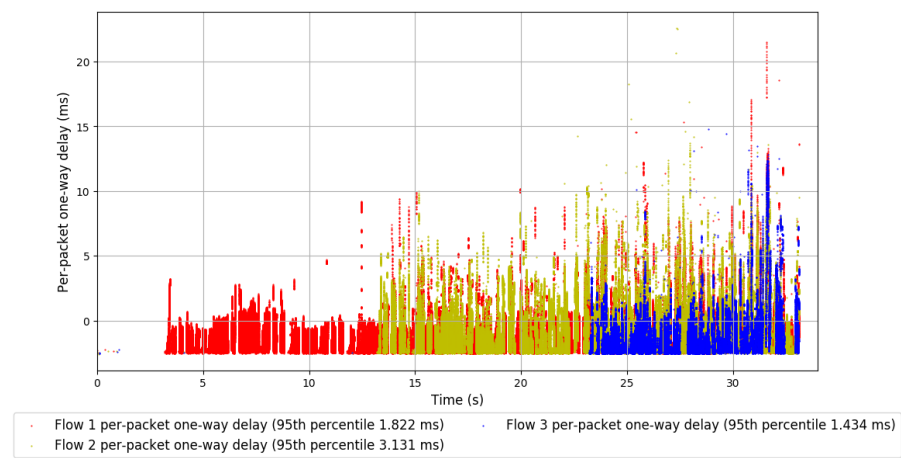
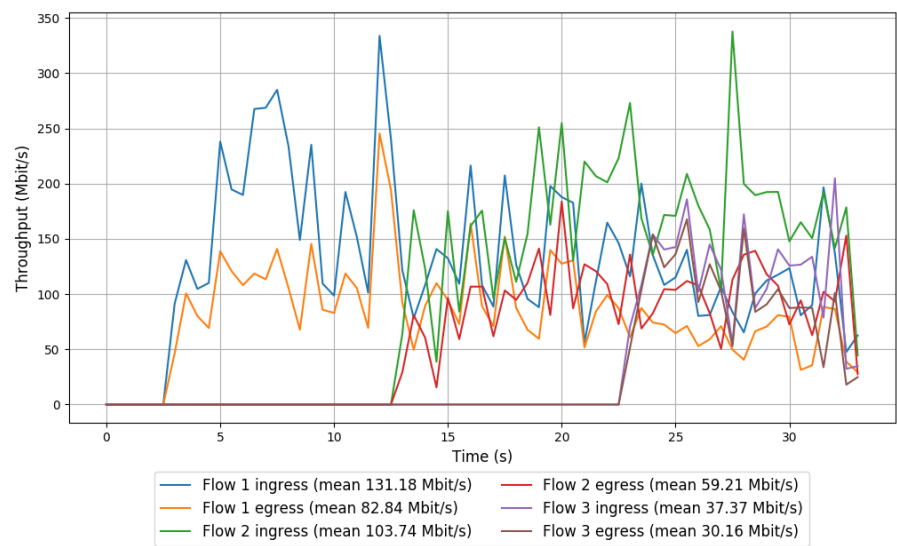
-- Flow 3:

Average throughput: 30.16 Mbit/s

95th percentile per-packet one-way delay: 1.434 ms

Loss rate: 19.29%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Sat, 01 Jul 2017 15:07:15 +0000

End at: Sat, 01 Jul 2017 15:07:45 +0000

Local clock offset: 0.219 ms

Remote clock offset: -2.752 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:32:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 179.50 Mbit/s

95th percentile per-packet one-way delay: 2.785 ms

Loss rate: 35.58%

-- Flow 1:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 2.984 ms

Loss rate: 44.48%

-- Flow 2:

Average throughput: 71.83 Mbit/s

95th percentile per-packet one-way delay: 2.055 ms

Loss rate: 22.23%

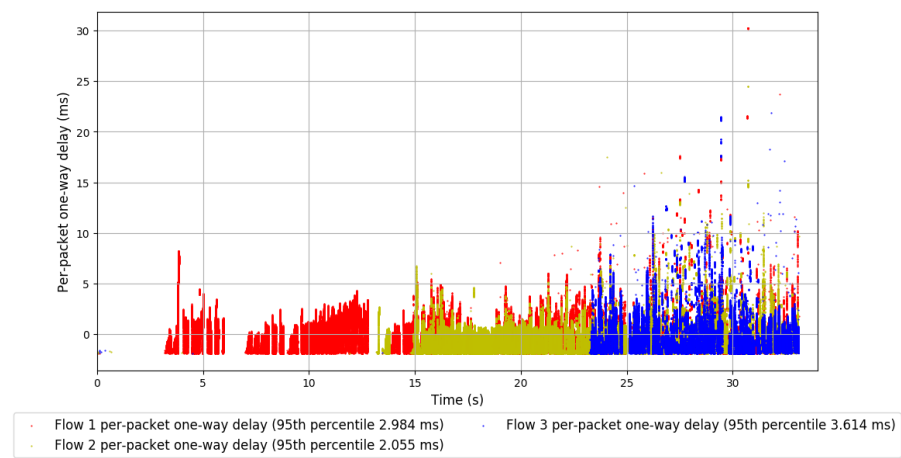
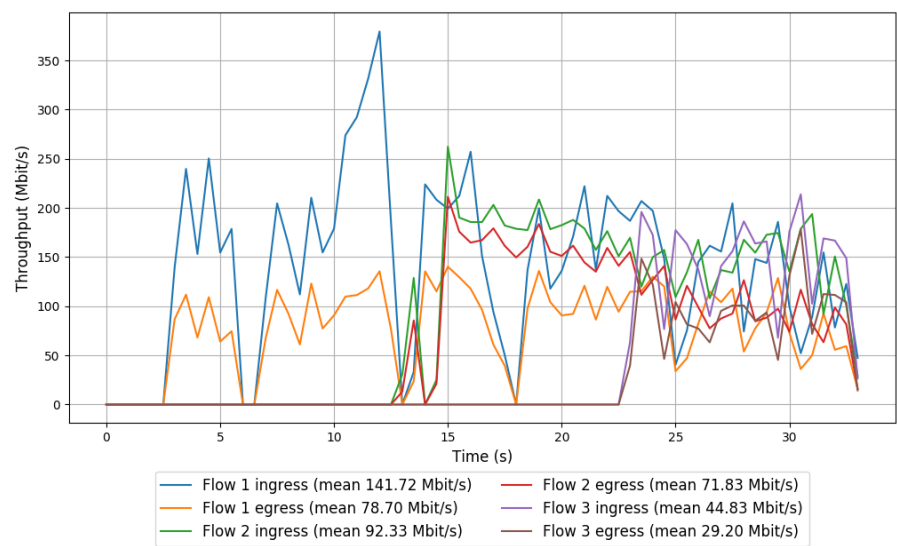
-- Flow 3:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 3.614 ms

Loss rate: 34.90%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Sat, 01 Jul 2017 15:27:55 +0000

End at: Sat, 01 Jul 2017 15:28:25 +0000

Local clock offset: 0.221 ms

Remote clock offset: -2.177 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:32:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 207.15 Mbit/s

95th percentile per-packet one-way delay: 4.119 ms

Loss rate: 35.82%

-- Flow 1:

Average throughput: 113.37 Mbit/s

95th percentile per-packet one-way delay: 4.174 ms

Loss rate: 38.79%

-- Flow 2:

Average throughput: 69.03 Mbit/s

95th percentile per-packet one-way delay: 3.873 ms

Loss rate: 31.58%

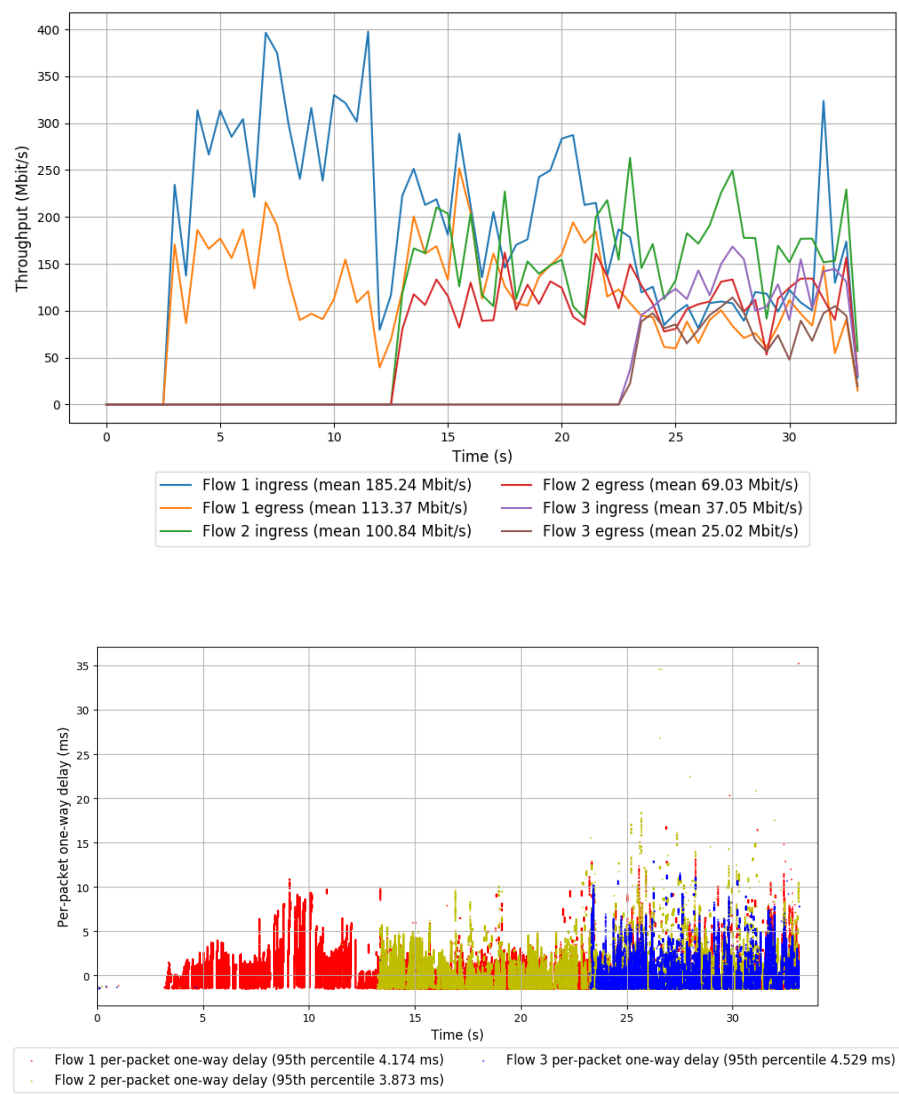
-- Flow 3:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 4.529 ms

Loss rate: 32.49%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Sat, 01 Jul 2017 15:48:41 +0000

End at: Sat, 01 Jul 2017 15:49:11 +0000

Local clock offset: 0.432 ms

Remote clock offset: -2.257 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 206.61 Mbit/s

95th percentile per-packet one-way delay: 2.606 ms

Loss rate: 29.02%

-- Flow 1:

Average throughput: 121.73 Mbit/s

95th percentile per-packet one-way delay: 2.288 ms

Loss rate: 31.52%

-- Flow 2:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 3.019 ms

Loss rate: 24.32%

-- Flow 3:

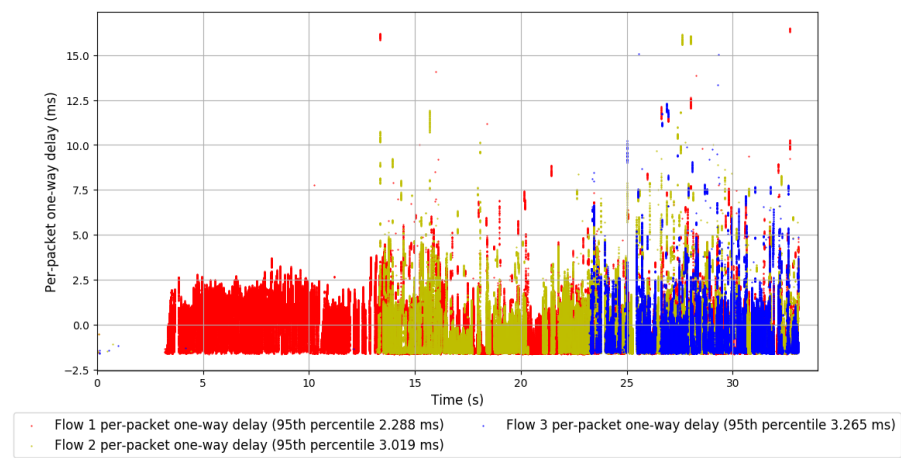
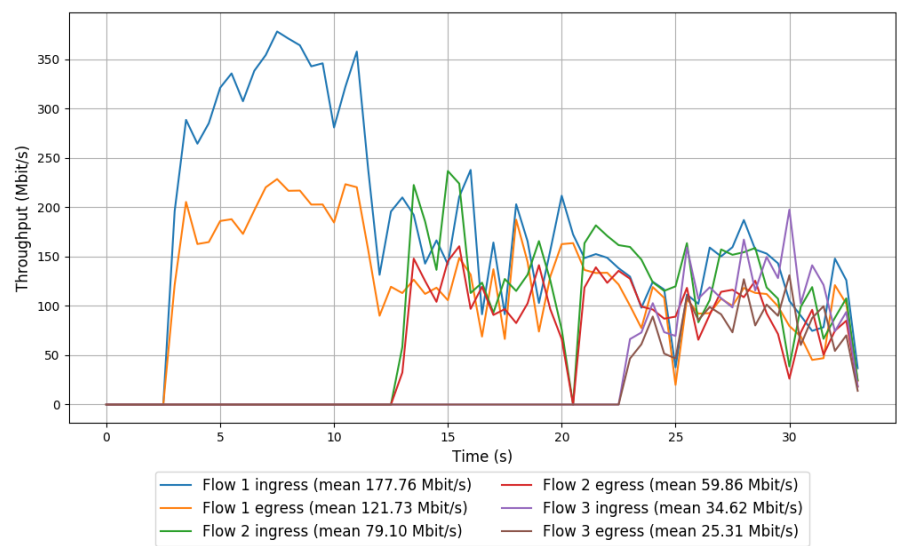
Average throughput: 25.31 Mbit/s

95th percentile per-packet one-way delay: 3.265 ms

Loss rate: 26.94%



Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 12:39:31 +0000

End at: Sat, 01 Jul 2017 12:40:01 +0000

Local clock offset: -0.054 ms

Remote clock offset: -4.679 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -2.969 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: -3.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: -3.006 ms

Loss rate: 0.31%

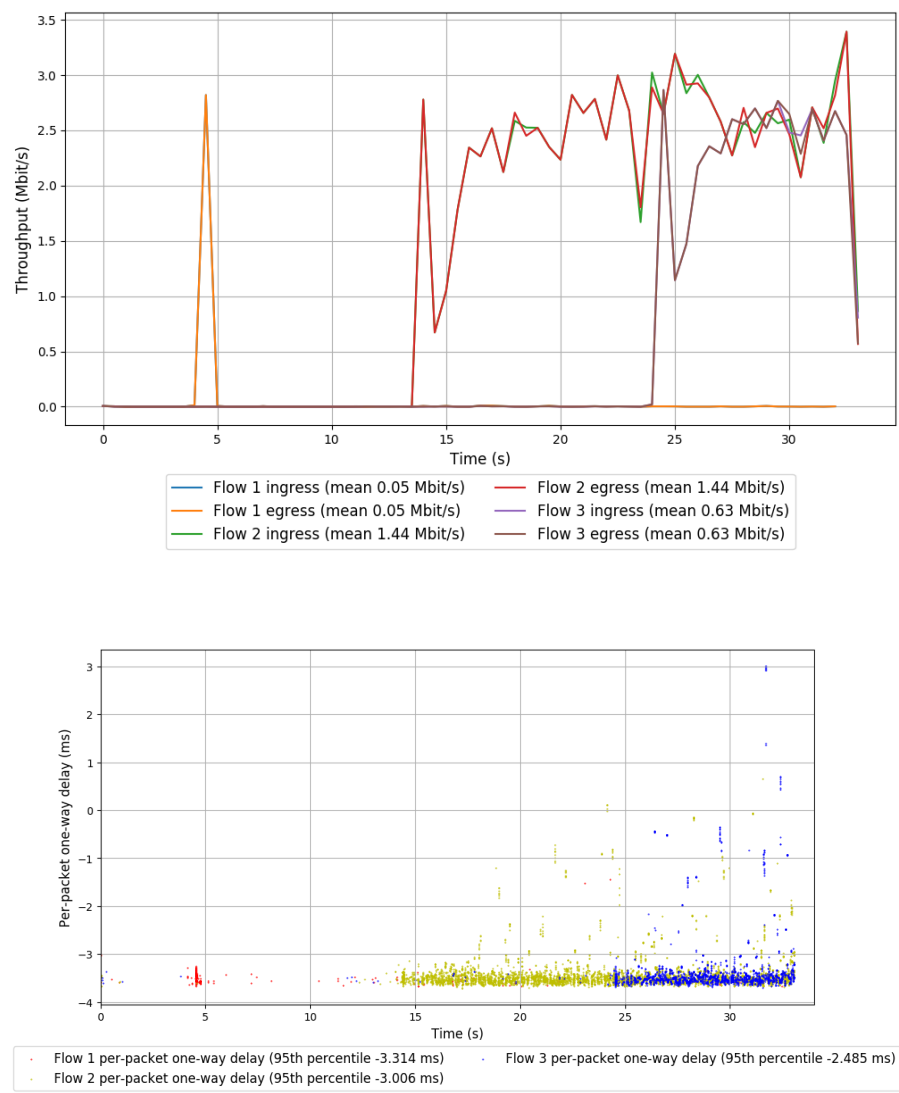
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: -2.485 ms

Loss rate: 0.56%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:00:23 +0000

End at: Sat, 01 Jul 2017 13:00:53 +0000

Local clock offset: 0.002 ms

Remote clock offset: -4.265 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: -2.400 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: -2.512 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: -2.412 ms

Loss rate: 0.39%

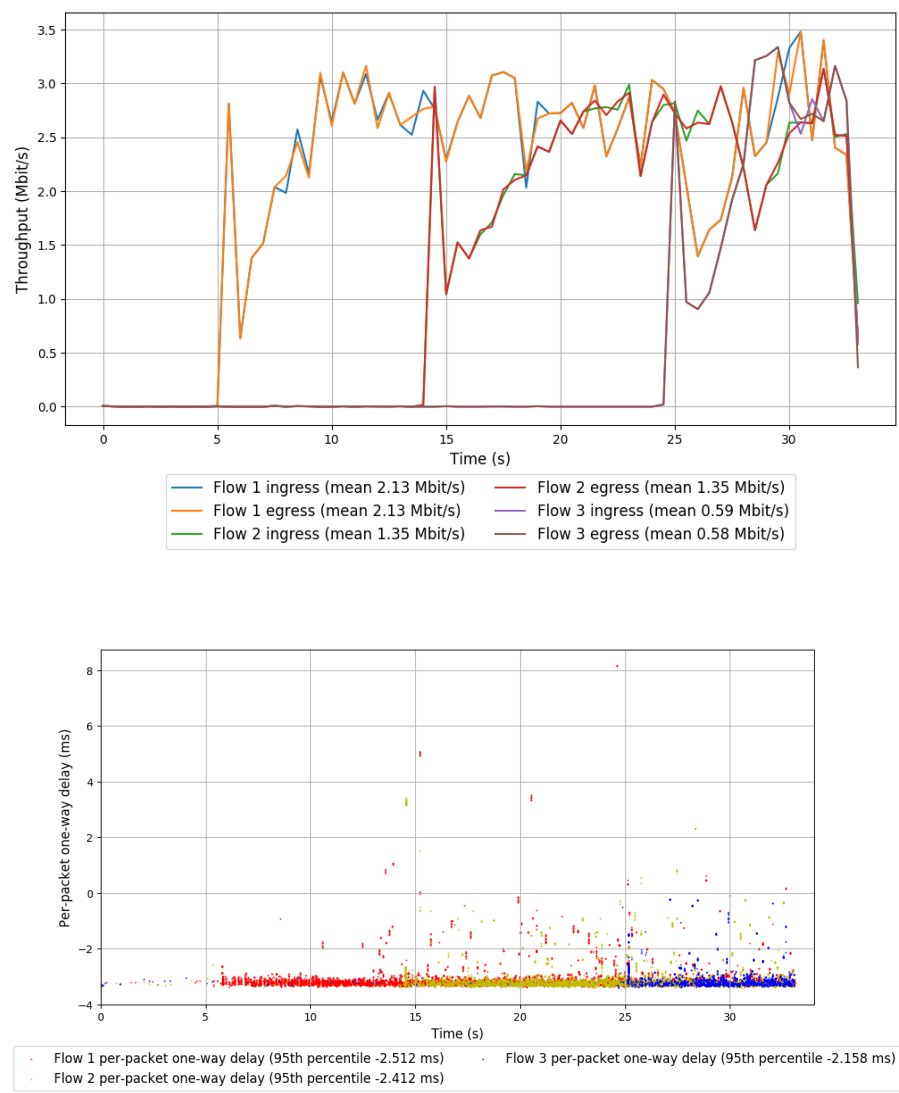
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: -2.158 ms

Loss rate: 0.55%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:21:07 +0000

End at: Sat, 01 Jul 2017 13:21:37 +0000

Local clock offset: 0.011 ms

Remote clock offset: -4.58 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: -2.983 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: -3.122 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: -2.765 ms

Loss rate: 0.52%

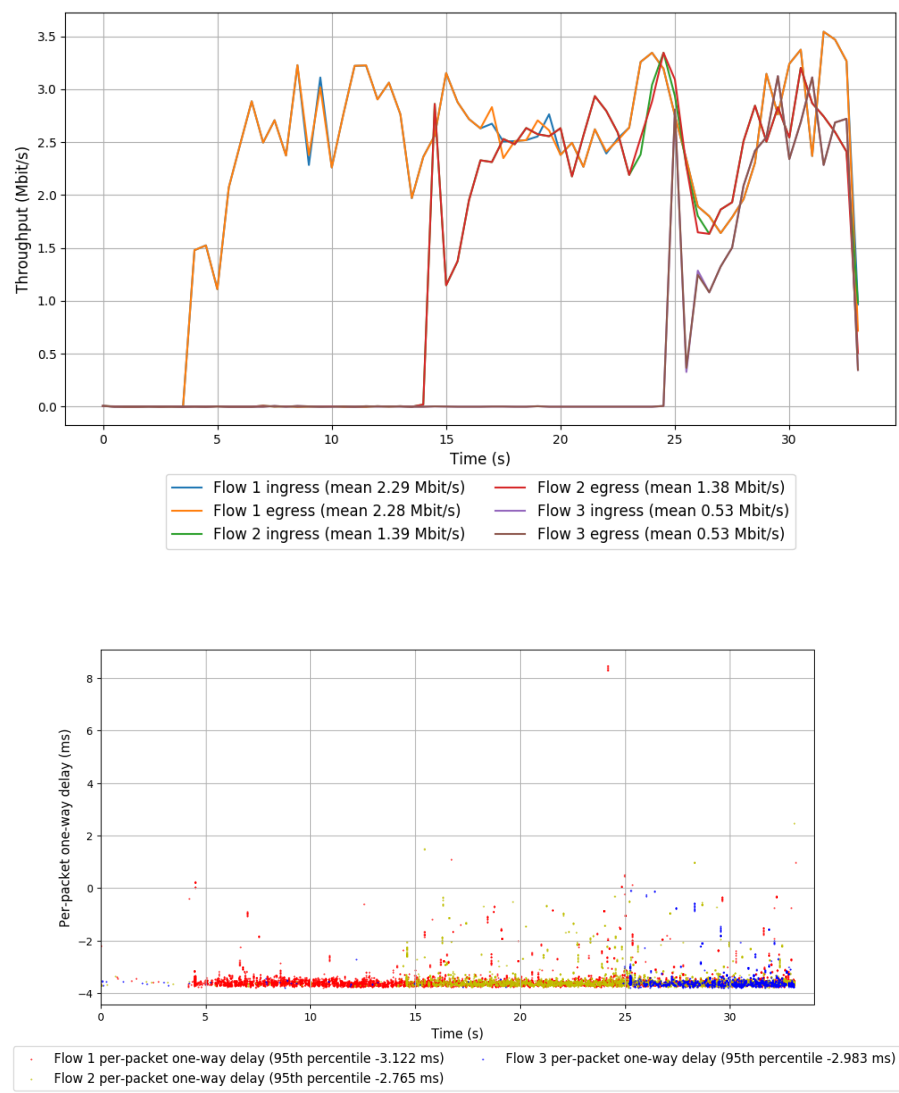
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: -2.983 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:41:59 +0000

End at: Sat, 01 Jul 2017 13:42:29 +0000

Local clock offset: 0.14 ms

Remote clock offset: -4.982 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: -3.300 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: -3.562 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: -2.933 ms

Loss rate: 0.18%

-- Flow 3:

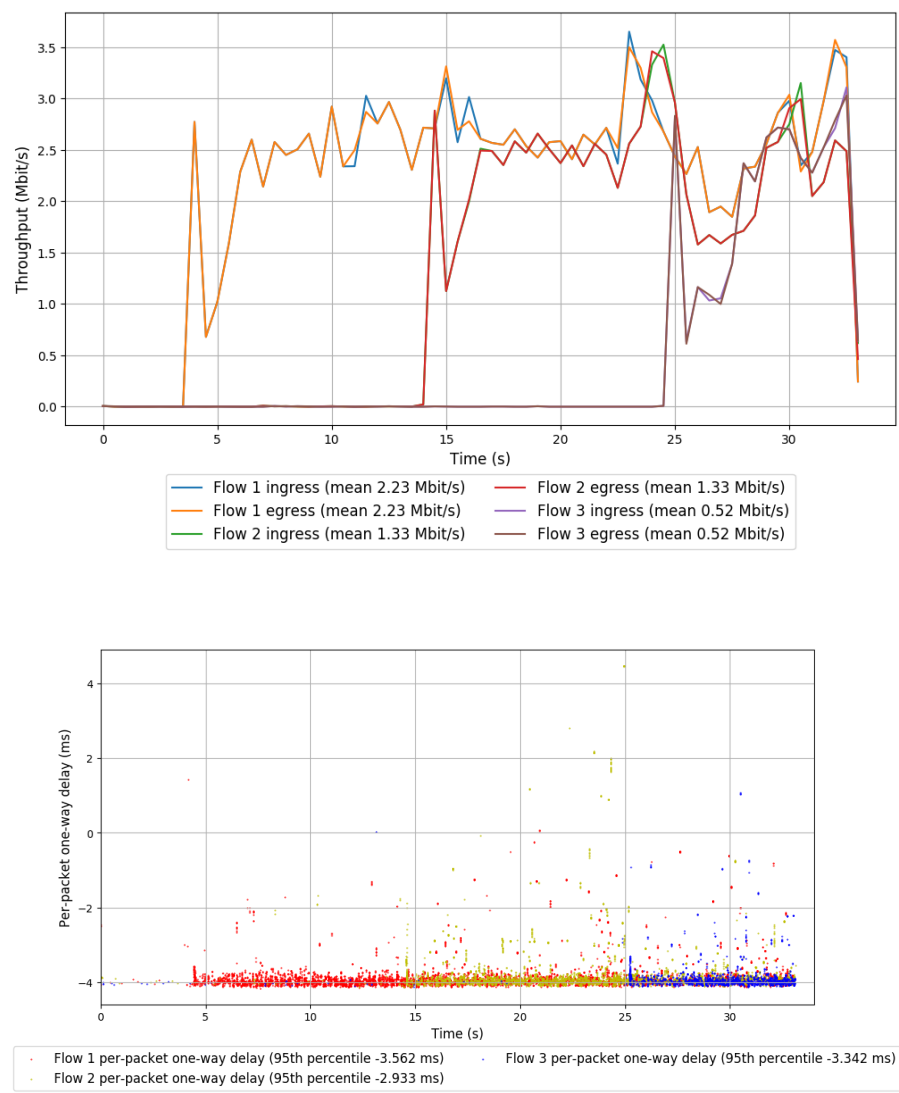
Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: -3.342 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 14:02:46 +0000

End at: Sat, 01 Jul 2017 14:03:16 +0000

Local clock offset: 0.118 ms

Remote clock offset: -4.359 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: -2.868 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: -2.881 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: -2.588 ms

Loss rate: 0.00%

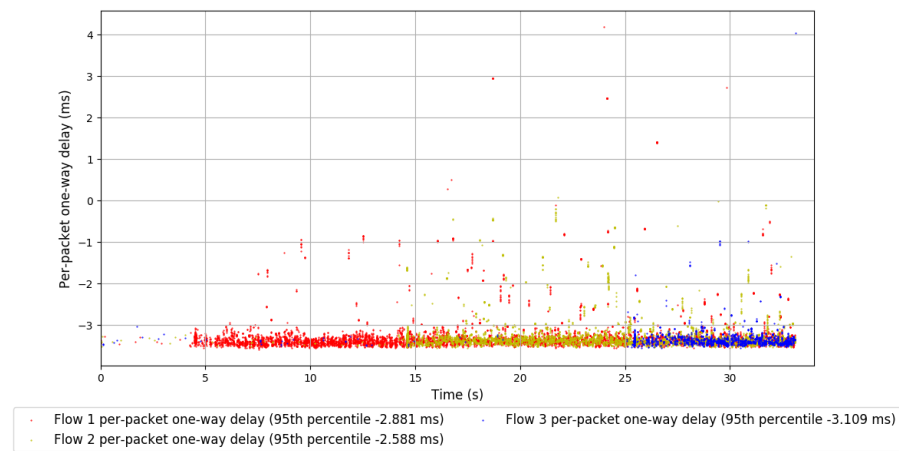
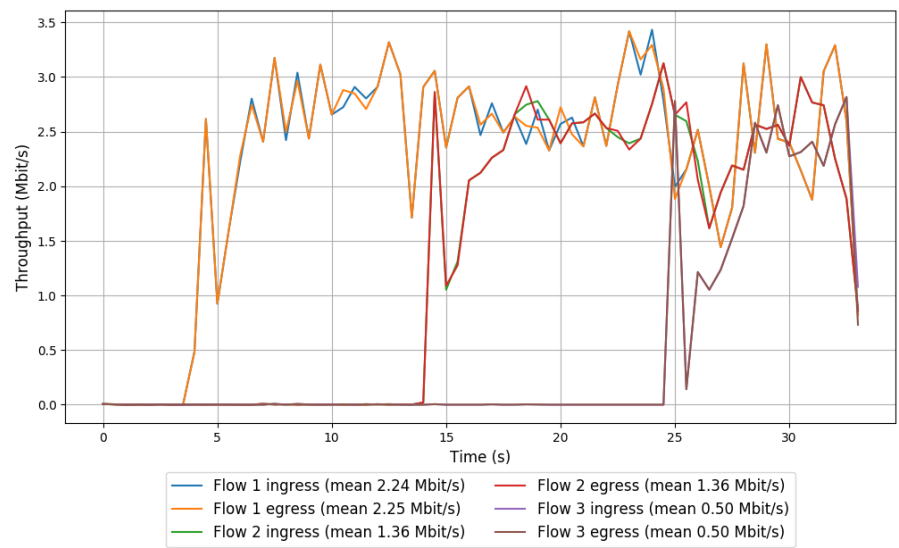
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: -3.109 ms

Loss rate: 1.05%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 14:23:22 +0000

End at: Sat, 01 Jul 2017 14:23:52 +0000

Local clock offset: 0.213 ms

Remote clock offset: -4.024 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: -2.525 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: -2.529 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: -2.602 ms

Loss rate: 0.48%

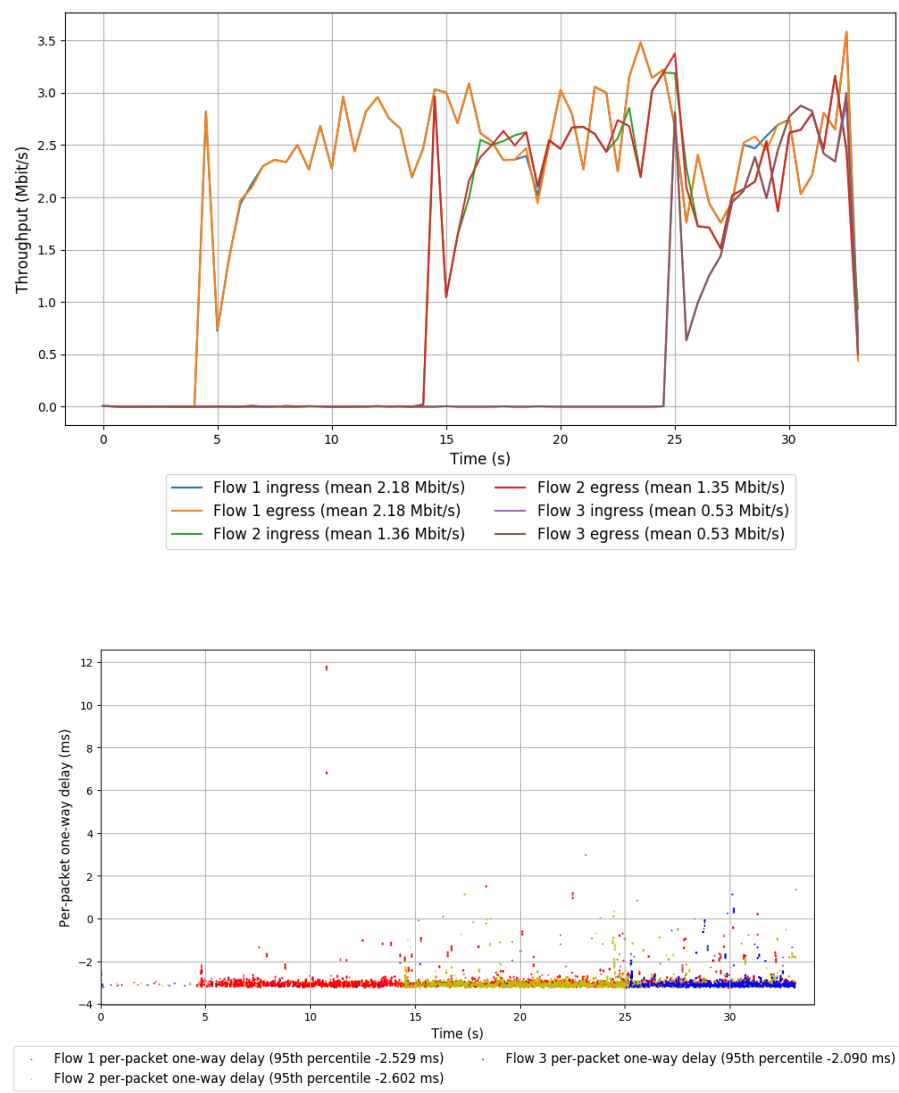
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: -2.090 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 14:44:05 +0000

End at: Sat, 01 Jul 2017 14:44:35 +0000

Local clock offset: 0.04 ms

Remote clock offset: -3.535 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: -1.588 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: -1.643 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: -1.582 ms

Loss rate: 0.00%

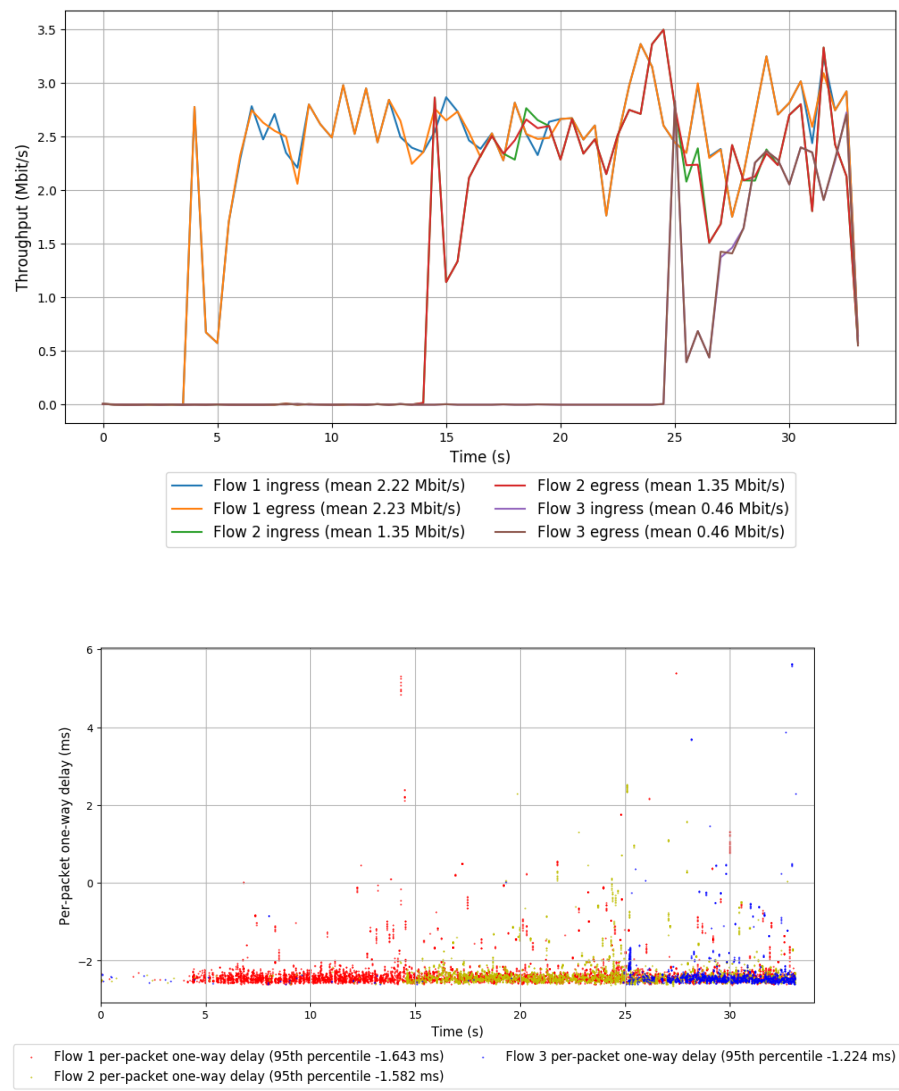
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -1.224 ms

Loss rate: 0.13%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 15:04:45 +0000

End at: Sat, 01 Jul 2017 15:05:15 +0000

Local clock offset: 0.206 ms

Remote clock offset: -2.856 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: -1.017 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: -1.093 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: -0.957 ms

Loss rate: 0.00%

-- Flow 3:

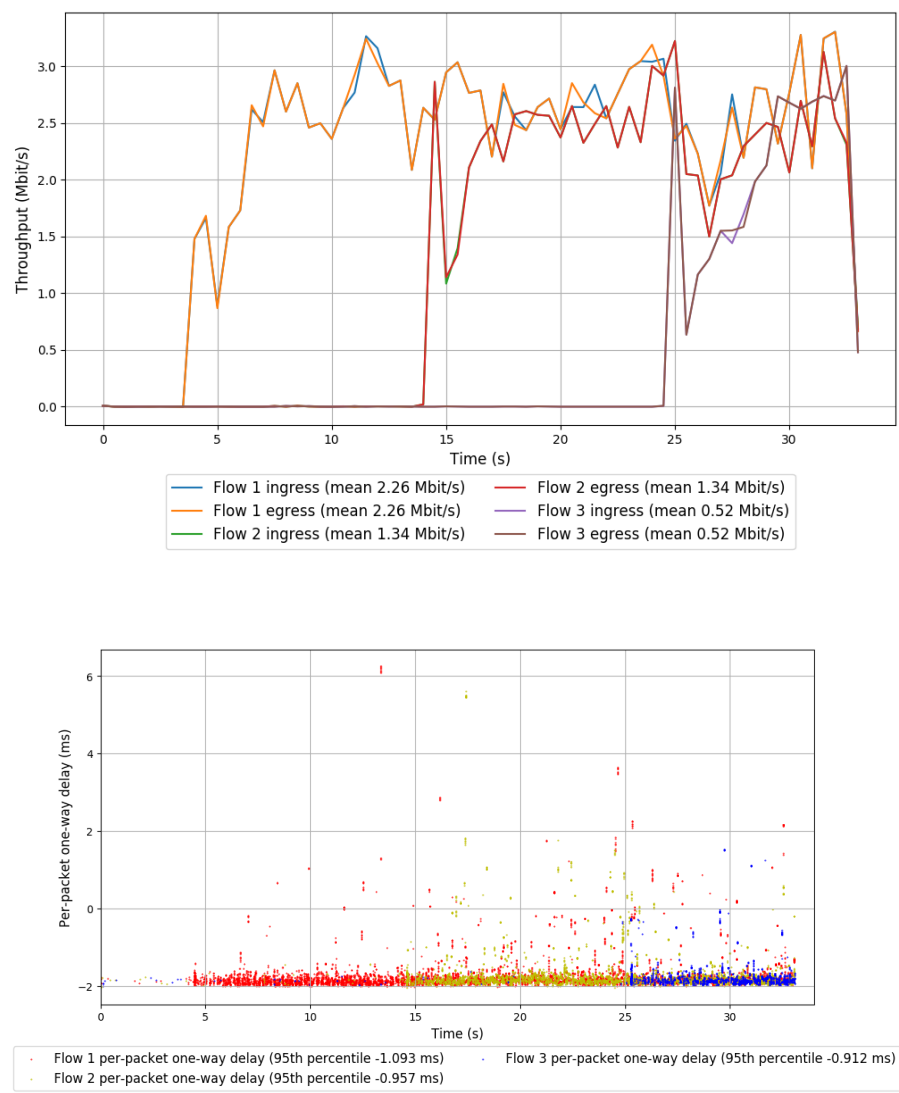
Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: -0.912 ms

Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 15:25:25 +0000

End at: Sat, 01 Jul 2017 15:25:55 +0000

Local clock offset: 0.222 ms

Remote clock offset: -2.118 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: -0.437 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: -0.444 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: -0.585 ms

Loss rate: 0.51%

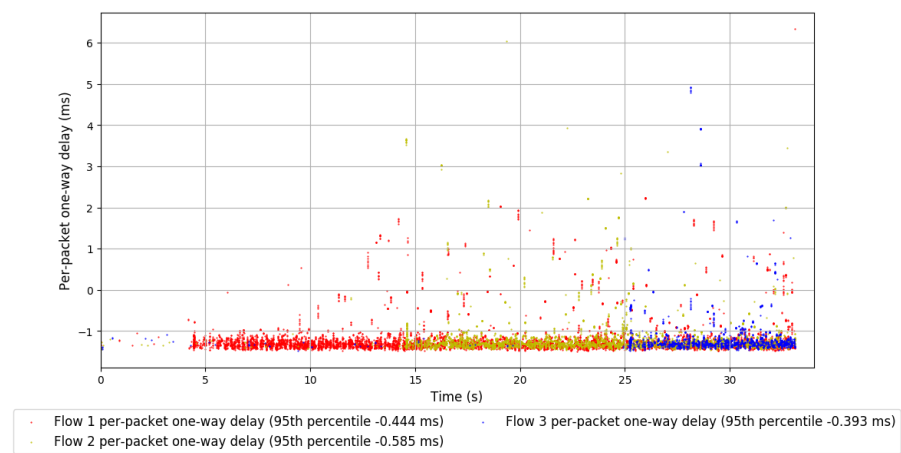
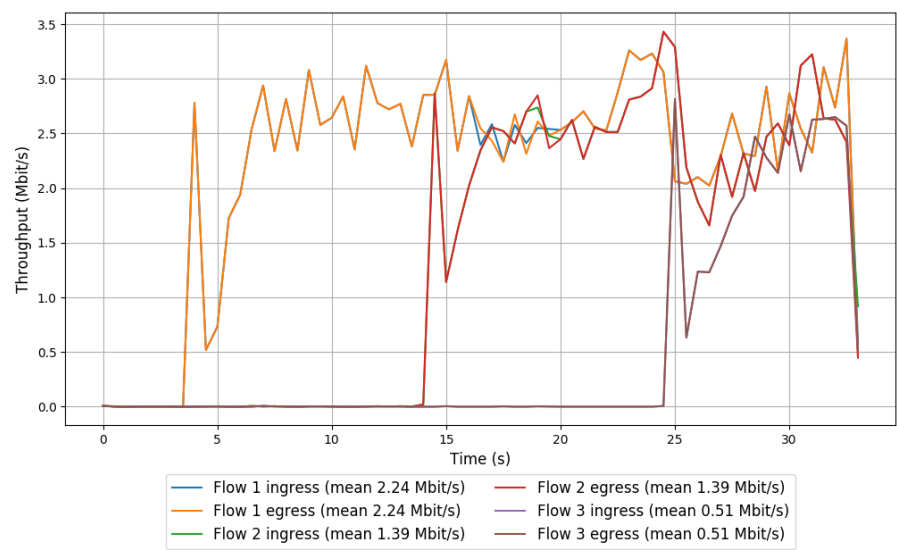
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: -0.393 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 15:46:09 +0000

End at: Sat, 01 Jul 2017 15:46:39 +0000

Local clock offset: 0.336 ms

Remote clock offset: -2.252 ms

# Below is generated by plot.py at Sat, 01 Jul 2017 20:33:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: -0.759 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: -0.999 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: -0.571 ms

Loss rate: 0.44%

-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: -0.437 ms

Loss rate: 0.40%

Run 10: Report of WebRTC media — Data Link

